

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN081319\
 Data File : VN057243.D
 Acq On : 13 Aug 2019 12:15
 Operator : JC/SP
 Sample : VSTDIC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Manual Integrations
 APPROVED

MMDadoda
 8/14/2019 12:29:46 PM

Quant Time: Aug 14 05:43:59 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N081319W.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 14 05:31:30 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	1239598	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	1774530	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	1573696	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	572141	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.02	65	236946	17.43	ug/l	0.00
Spiked Amount			Recovery	=	34.86%	
35) Dibromofluoromethane	7.58	113	213809	19.13	ug/l	0.00
Spiked Amount			Recovery	=	38.26%	
50) Toluene-d8	10.08	98	801361	18.64	ug/l	0.00
Spiked Amount			Recovery	=	37.28%	
62) 4-Bromofluorobenzene	12.40	95	246814	17.10	ug/l	0.00
Spiked Amount			Recovery	=	34.20%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.85	85	202090	17.510	ug/l	98
3) Chloromethane	2.05	50	229074	15.055	ug/l	99
4) Vinyl Chloride	2.18	62	222581	15.220	ug/l	99
5) Bromomethane	2.55	94	165279	18.702	ug/l	98
6) Chloroethane	2.70	64	146881	16.863	ug/l	100
7) Trichlorofluoromethane	3.02	101	348152	18.034	ug/l	100
8) Diethyl Ether	3.40	74	124099	16.776	ug/l	100
9) 1,1,2-Trichlorotrifluoroet	3.76	101	207111	17.926	ug/l	99
10) Methyl Iodide	3.95	142	324950	20.366	ug/l	100
11) Tert butyl alcohol	4.76	59	152227	70.091	ug/l #	77
12) 1,1-Dichloroethene	3.73	96	206097	17.827	ug/l	97
13) Acrolein	3.60	56	113734	122.582	ug/l	99
14) Allyl chloride	4.32	41	310133	15.812	ug/l	100
15) Acrylonitrile	4.98	53	456962	72.355	ug/l	100
16) Acetone	3.81	43	447084	74.139	ug/l	98
17) Carbon Disulfide	4.05	76	541166	17.609	ug/l	99
18) Methyl Acetate	4.31	43	221325	13.407	ug/l	100
19) Methyl tert-butyl Ether	5.03	73	612609	16.793	ug/l	99
20) Methylene Chloride	4.54	84	231301	16.967	ug/l	97
21) trans-1,2-Dichloroethene	5.03	96	218970	17.953	ug/l	95
22) Diisopropyl ether	5.94	45	624064	16.215	ug/l	95
23) Vinyl Acetate	5.88	43	2441775	78.609	ug/l	99
24) 1,1-Dichloroethane	5.84	63	383134	16.902	ug/l	100
25) 2-Butanone	6.82	43	598407	68.347	ug/l	100
26) 2,2-Dichloropropane	6.81	77	319069	19.082	ug/l	99
27) cis-1,2-Dichloroethene	6.82	96	253032	18.015	ug/l	100
28) Bromochloromethane	7.19	49	185134	17.691	ug/l	100
29) Tetrahydrofuran	7.20	42	372575	65.529	ug/l	99
30) Chloroform	7.36	83	402576	17.617	ug/l	98
31) Cyclohexane	7.65	56	340514	16.119	ug/l	97
32) 1,1,1-Trichloroethane	7.56	97	347462	19.022	ug/l	99
36) 1,1-Dichloropropene	7.79	75	297955	18.194	ug/l	99
37) Ethyl Acetate	6.91	43	240172	15.517	ug/l	99
38) Carbon Tetrachloride	7.77	117	314302	20.103	ug/l	97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	350838	17.469	ug/l	98
40) Benzene	8.03	78	915057	18.321	ug/l	99
41) Methacrylonitrile	7.17	41	104775m	15.571	ug/l	
42) 1,2-Dichloroethane	8.12	62	295303	18.617	ug/l	100
43) Isopropyl Acetate	8.16	43	396150	16.044	ug/l	99
44) Trichloroethene	8.83	130	259332	18.881	ug/l	100
45) 1,2-Dichloropropane	9.11	63	232916	17.703	ug/l	98
46) Dibromomethane	9.20	93	156248	18.942	ug/l	99
47) Bromodichloromethane	9.40	83	302417	19.154	ug/l	99
48) Methyl methacrylate	9.19	41	180596	15.221	ug/l	96
49) 1,4-Dioxane	9.19	88	79621	321.915	ug/l	96
51) 4-Methyl-2-Pentanone	9.98	43	1154988	73.252	ug/l	99
52) Toluene	10.15	92	574666	19.234	ug/l	100
53) t-1,3-Dichloropropene	10.38	75	320032	19.394	ug/l	98
54) cis-1,3-Dichloropropene	9.83	75	368436	19.322	ug/l	98
55) 1,1,2-Trichloroethane	10.56	97	221230	17.815	ug/l	98
56) Ethyl methacrylate	10.43	69	306978	17.379	ug/l	99
57) 1,3-Dichloropropane	10.70	76	364488	17.990	ug/l	98
58) 2-Chloroethyl Vinyl ether	9.69	63	371741	47.455	ug/l	99
59) 2-Hexanone	10.75	43	828689	73.592	ug/l	99
60) Dibromochloromethane	10.90	129	246606	19.905	ug/l	99
61) 1,2-Dibromoethane	11.00	107	230526	18.618	ug/l	100
64) Tetrachloroethene	10.63	164	266945	19.572	ug/l	98
65) Chlorobenzene	11.43	112	618695	19.167	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.51	131	240609	20.107	ug/l	99
67) Ethyl Benzene	11.51	91	1062401	18.815	ug/l	100
68) m/p-Xylenes	11.62	106	790126	37.470	ug/l	99
69) o-Xylene	11.95	106	387656	18.705	ug/l	100
70) Styrene	11.96	104	602712	18.049	ug/l	99
71) Bromoform	12.13	173	176692	19.431	ug/l #	98
73) Isopropylbenzene	12.25	105	1036071	22.049	ug/l	99
74) N-amyl acetate	12.07	43	276026	16.507	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.50	83	290135	18.774	ug/l	100
76) 1,2,3-Trichloropropane	12.55	75	239488m	19.441	ug/l	
77) Bromobenzene	12.53	156	269661	21.903	ug/l	98
78) n-propylbenzene	12.59	91	1024857	19.858	ug/l	100
79) 2-Chlorotoluene	12.67	91	657768	20.494	ug/l	99
80) 1,3,5-Trimethylbenzene	12.73	105	851732	21.457	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.30	75	82152	20.128	ug/l	96
82) 4-Chlorotoluene	12.77	91	593276	19.629	ug/l	100
83) tert-Butylbenzene	12.99	119	768942	22.045	ug/l	98
84) 1,2,4-Trimethylbenzene	13.04	105	784380	20.397	ug/l	99
85) sec-Butylbenzene	13.17	105	911112	20.689	ug/l	99
86) p-Isopropyltoluene	13.29	119	782268	19.713	ug/l	100
87) 1,3-Dichlorobenzene	13.28	146	376862	18.957	ug/l	100
88) 1,4-Dichlorobenzene	13.36	146	349308	18.170	ug/l	99
89) n-Butylbenzene	13.62	91	578892	18.557	ug/l	99
90) Hexachloroethane	13.88	117	155667	23.636	ug/l	99
91) 1,2-Dichlorobenzene	13.65	146	370087	18.337	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.27	75	35904	15.056	ug/l	96

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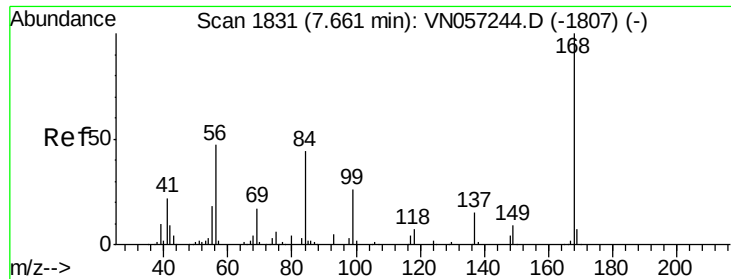
Manual Integrations
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	94898	10.880	ug/l	99
94) Hexachlorobutadiene	15.01	225	167165	22.298	ug/l	99
95) Naphthalene	15.13	128	170071	7.592	ug/l	98
96) 1,2,3-Trichlorobenzene	15.30	180	90276	10.150	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1831

Delta R.T. 0.00 min

Lab File: VN057243.D

Acq: 13 Aug 2019 12:15

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion:168 Resp: 1239598

Ion Ratio Lower Upper

168 100

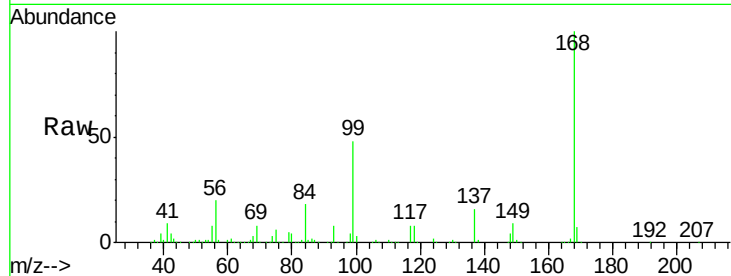
99 47.7 38.6 58.0

Manual Integrations

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

600000

500000

400000

300000

200000

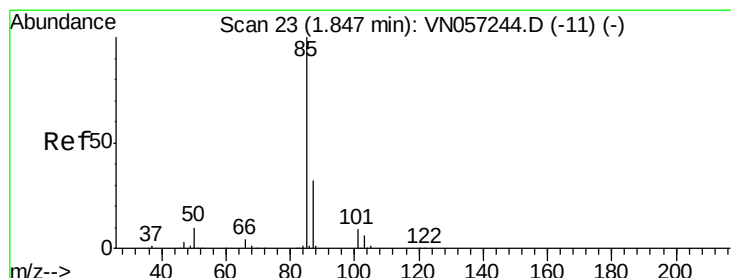
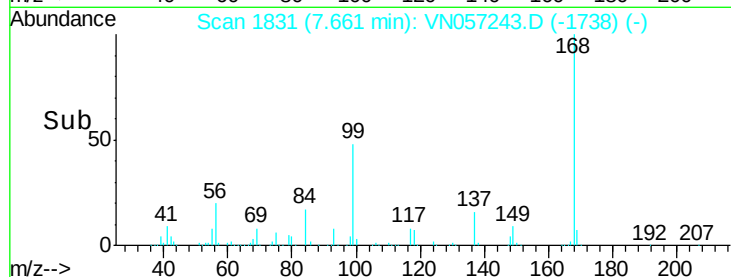
100000

0

7.66

7.70

Time-->



#2

Dichlorodifluoromethane

Concen: 17.510 ug/l

RT: 1.85 min Scan# 24

Delta R.T. 0.00 min

Lab File: VN057243.D

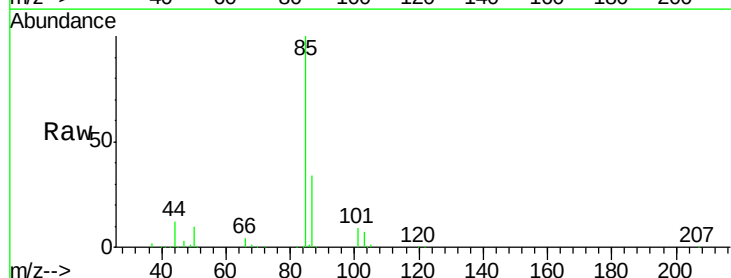
Acq: 13 Aug 2019 12:15

Tgt Ion: 85 Resp: 202090

Ion Ratio Lower Upper

85 100

87 33.5 16.2 48.6



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

150000

100000

50000

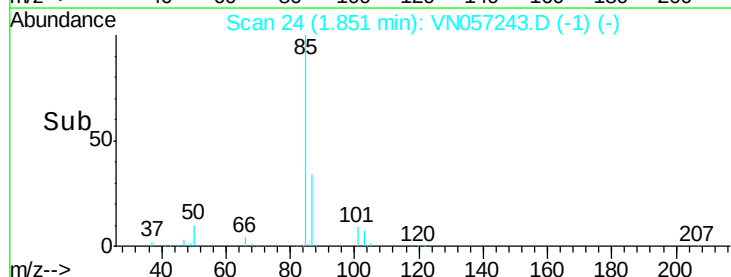
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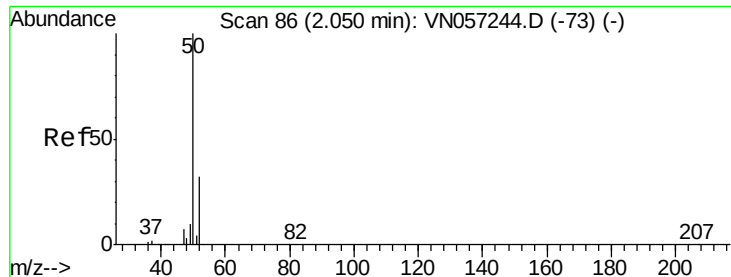
1.85

1.90

1.95

Time-->





#3

Chloromethane

Concen: 15.055 ug/l

RT: 2.05 min Scan# 86

Delta R.T. 0.00 min

Lab File: VN057243.D

Acq: 13 Aug 2019 12:15

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion: 50 Resp: 229074

Ion Ratio Lower Upper

50 100

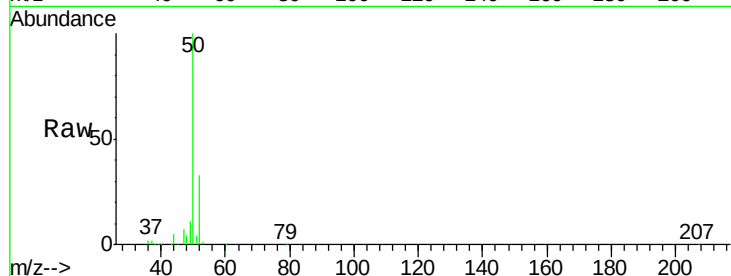
52 32.7 25.6 38.4

Manual Integrations

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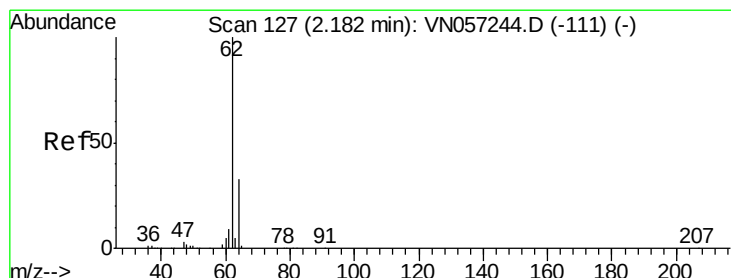
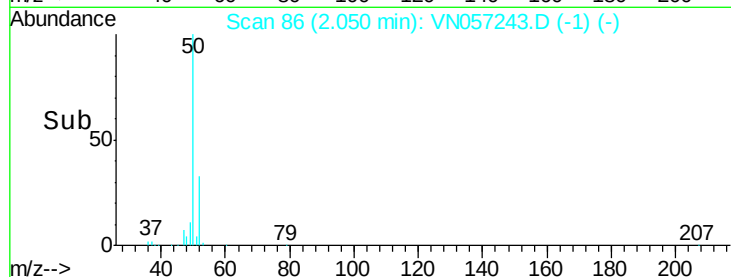
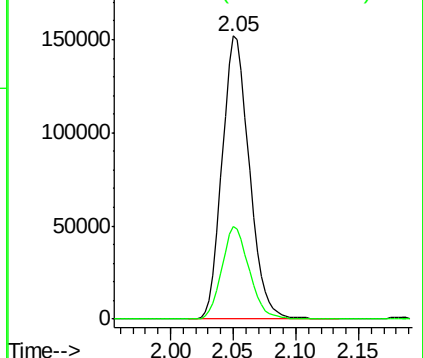
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Abundance Ion 49.90 (49.60 to 50.60): VNC

Ion 51.90 (51.60 to 52.60): VNC



#4

Vinyl Chloride

Concen: 15.220 ug/l

RT: 2.18 min Scan# 127

Delta R.T. 0.00 min

Lab File: VN057243.D

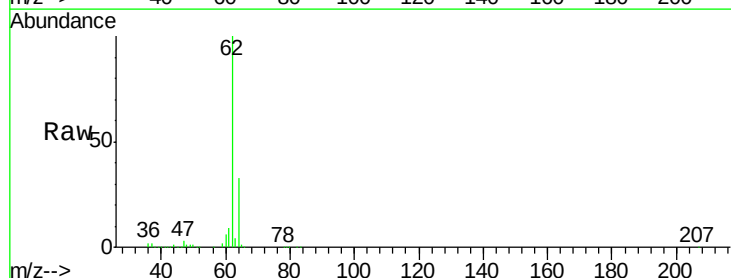
Acq: 13 Aug 2019 12:15

Tgt Ion: 62 Resp: 222581

Ion Ratio Lower Upper

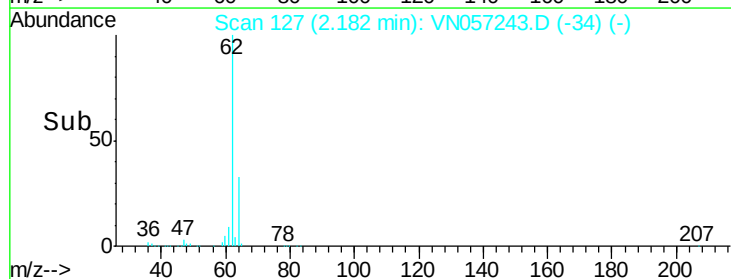
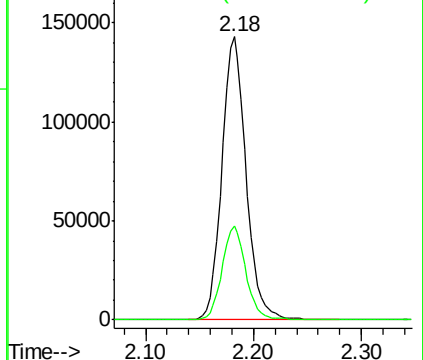
62 100

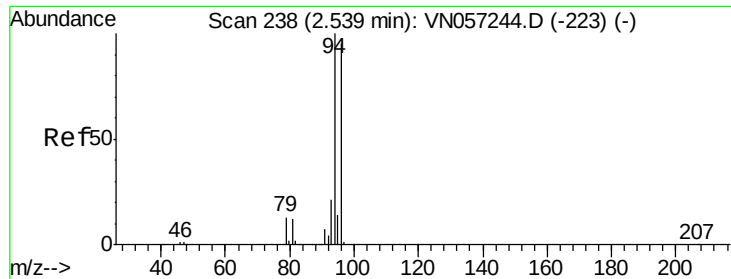
64 33.4 26.2 39.2



Abundance Ion 61.90 (61.60 to 62.60): VNC

Ion 63.90 (63.60 to 64.60): VNC





#5

Bromomethane

Concen: 18.702 ug/l

RT: 2.55 min Scan# 241

Delta R.T. 0.01 min

Lab File: VN057243.D

Acq: 13 Aug 2019 12:15

Instrument :

MSVOA_N

ClientSampled :

VSTDIC020

Tot Ion: 94 Resp: 165279

Ion Ratio Lower Upper

94 100

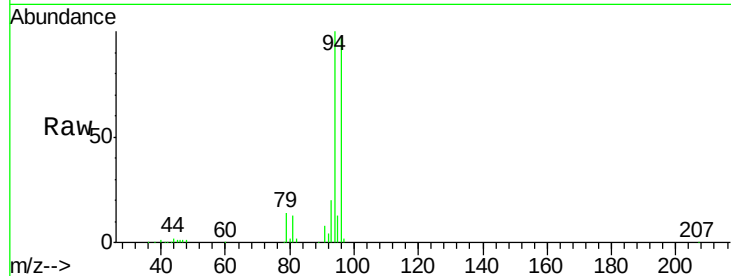
96 96.6 75.7 113.5

Manual Integrations

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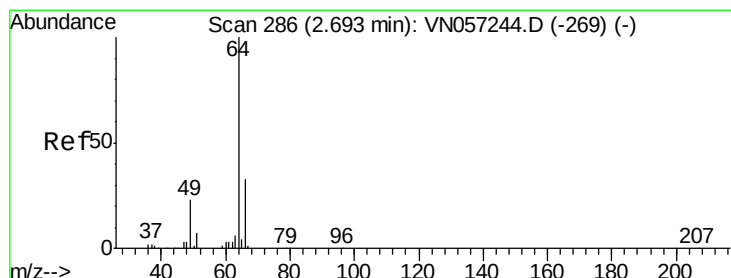
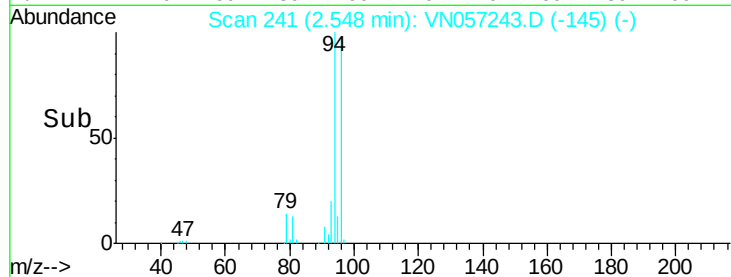
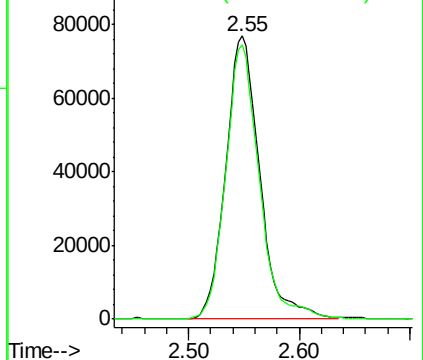
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Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO



#6

Chloroethane

Concen: 16.863 ug/l

RT: 2.70 min Scan# 287

Delta R.T. 0.00 min

Lab File: VN057243.D

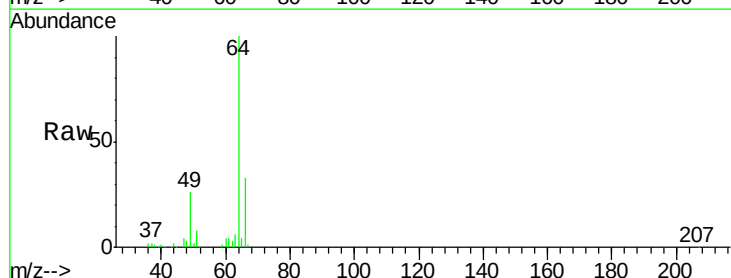
Acq: 13 Aug 2019 12:15

Tgt Ion: 64 Resp: 146881

Ion Ratio Lower Upper

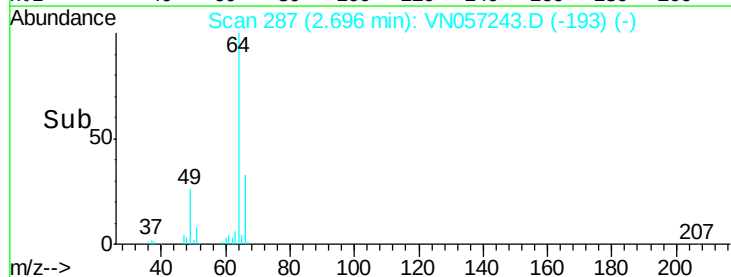
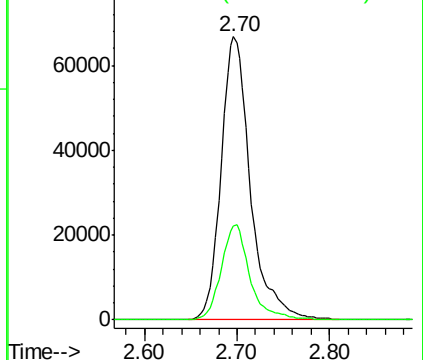
64 100

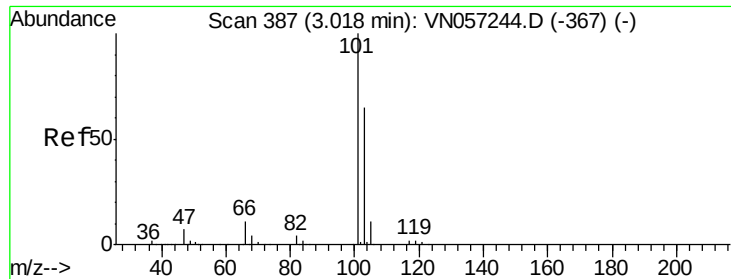
66 33.2 26.3 39.5



Abundance Ion 63.90 (63.60 to 64.60): VNO

Ion 65.90 (65.60 to 66.60): VNO





#7

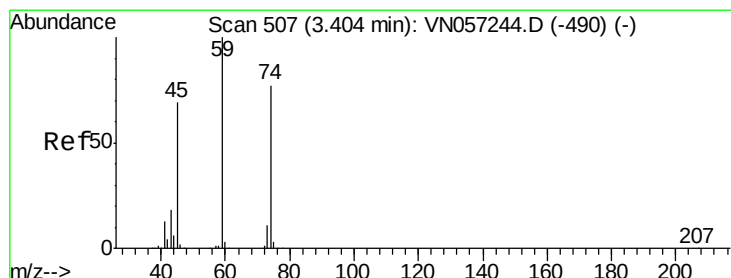
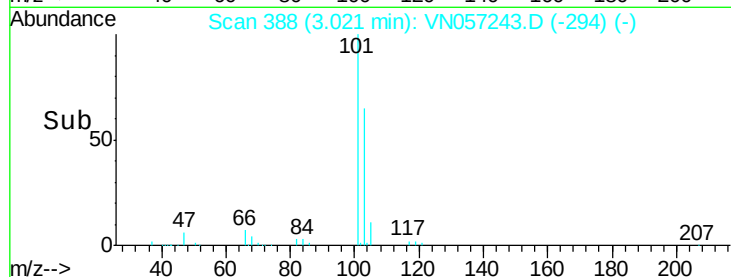
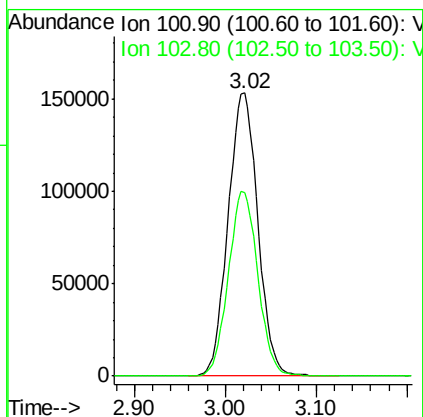
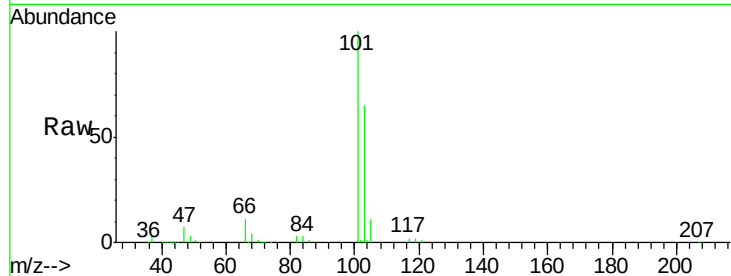
Trichlorofluoromethane
 Concen: 18.034 ug/l
 RT: 3.02 min Scan# 388
 Delta R.T. 0.00 min
 Lab File: VN057243.D
 Acq: 13 Aug 2019 12:15

Instrument :
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Tot Ion	Ratio	Resp	Lower	Upper
101	100	348152		
103	64.9	51.8	77.6	

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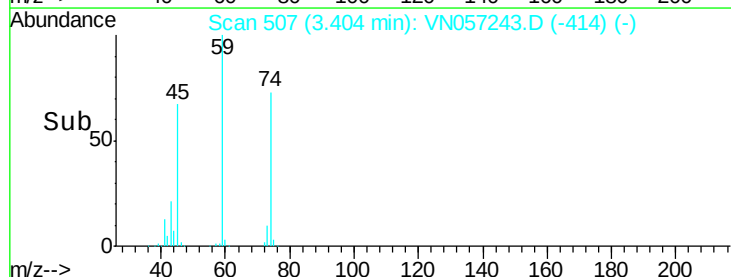
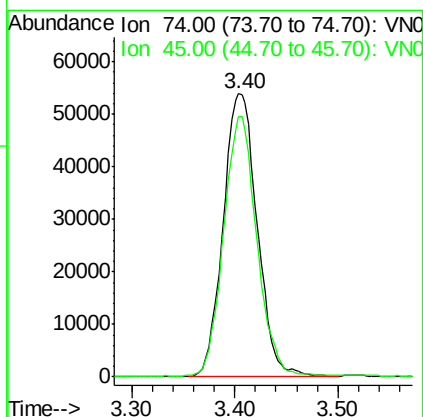
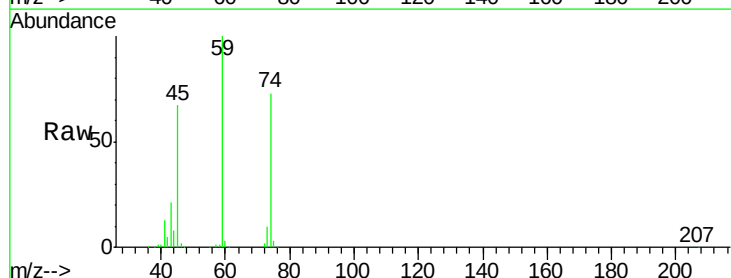
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 8/14/2019 12:29:46 PM

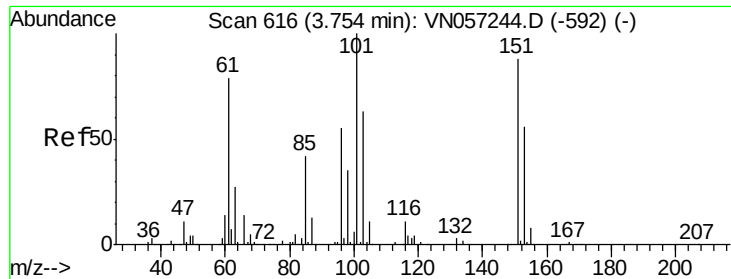


#8

Diethyl Ether
 Concen: 16.776 ug/l
 RT: 3.40 min Scan# 507
 Delta R.T. 0.00 min
 Lab File: VN057243.D
 Acq: 13 Aug 2019 12:15

Tgt Ion	Ratio	Resp	Lower	Upper
74	100	124099		
45	90.2	45.1	135.2	





#9

1,1,2-Trichlorotrifluoroethane

Concen: 17.926 ug/l

RT: 3.76 min Scan# 618

Delta R.T. 0.01 min

Lab File: VN057243.D

Acq: 13 Aug 2019 12:15

Instrument :

MSVOA_N

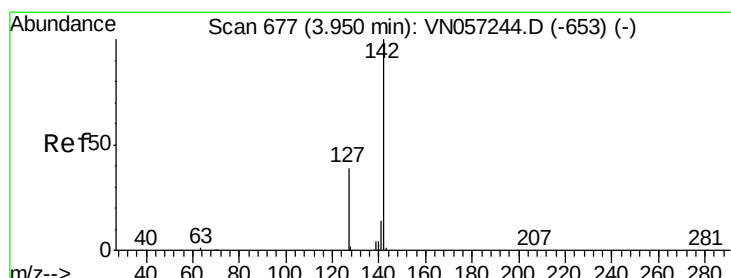
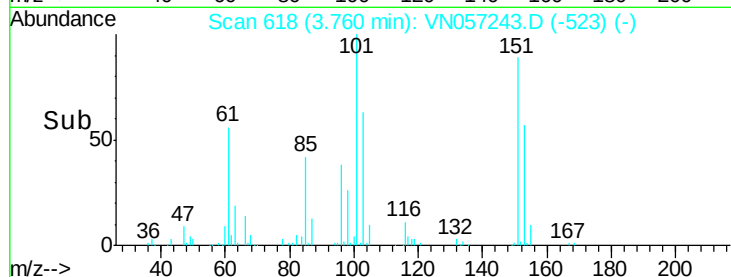
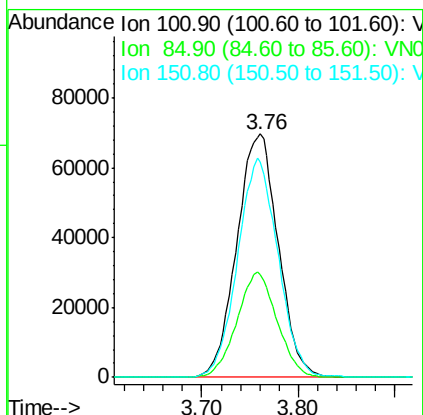
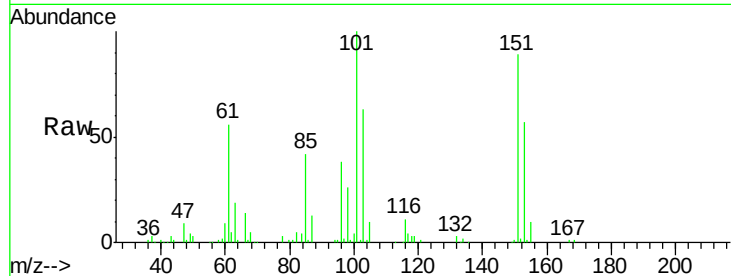
ClientSampleId :

VSTDIC020

Tot Ion:	101	Resp:	207111
Ion Ratio	Lower	Upper	
101	100		
85	41.7	32.7	49.1
151	88.0	70.1	105.1

Manual Integrations
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#10

Methyl Iodide

Concen: 20.366 ug/l

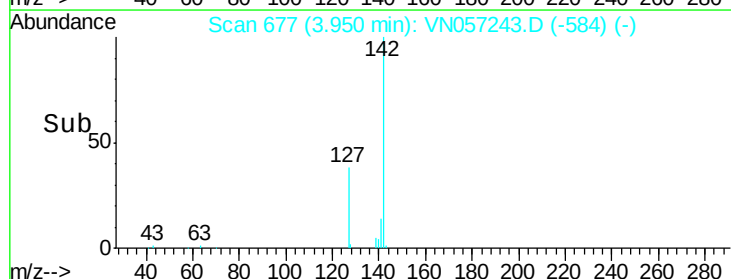
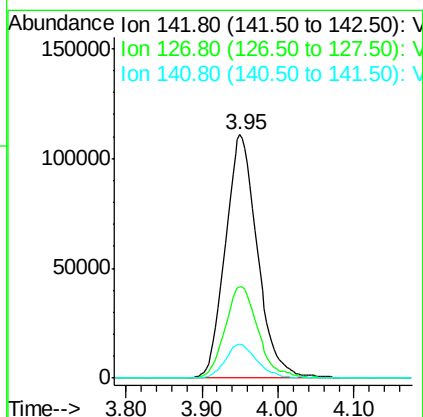
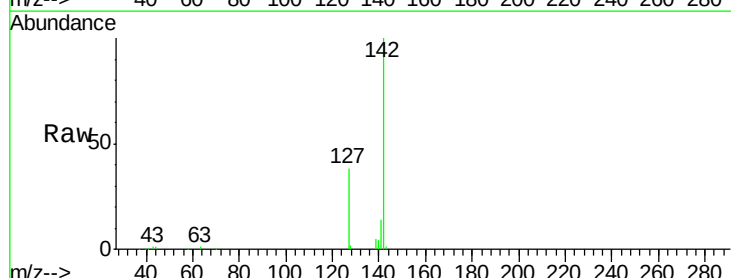
RT: 3.95 min Scan# 677

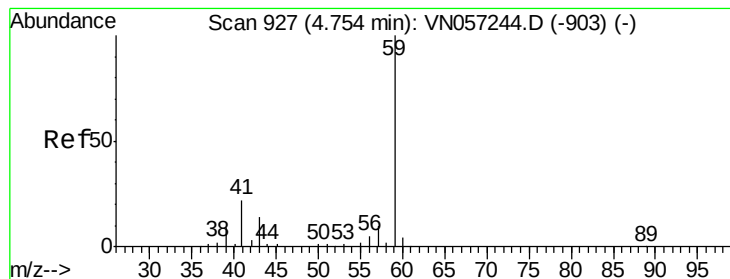
Delta R.T. 0.00 min

Lab File: VN057243.D

Acq: 13 Aug 2019 12:15

Tgt Ion:	142	Resp:	324950
Ion Ratio	Lower	Upper	
142	100		
127	38.8	30.7	46.1
141	13.8	11.0	16.6





#11

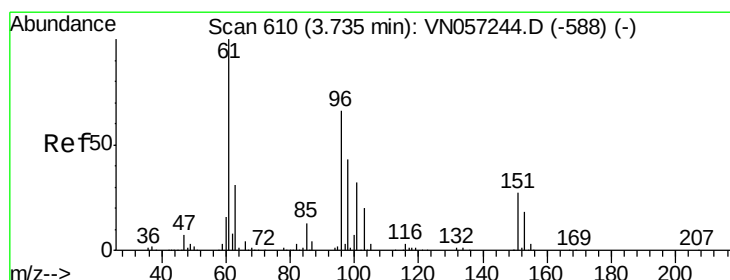
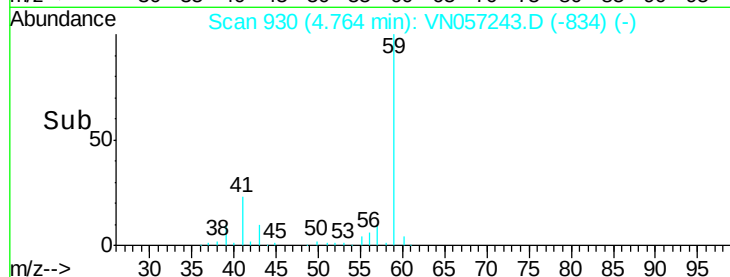
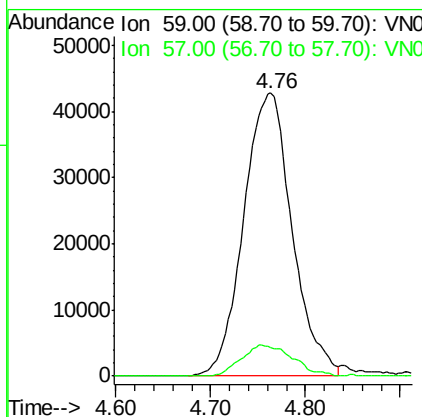
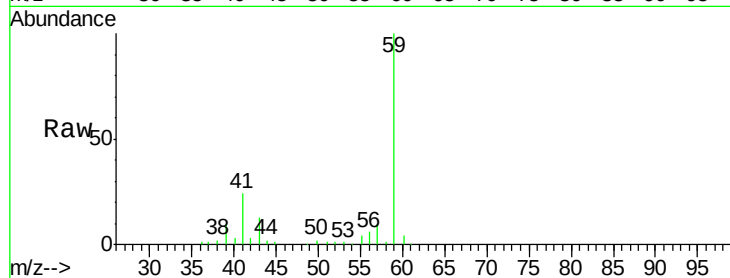
Tert butyl alcohol
Concen: 70.091 ug/l
RT: 4.76 min Scan# 930
Delta R.T. 0.01 min
Lab File: VN057243.D
Acq: 13 Aug 2019 12:15

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
59	100		
57	11.7	3.4	5.2#

Manual Integrations
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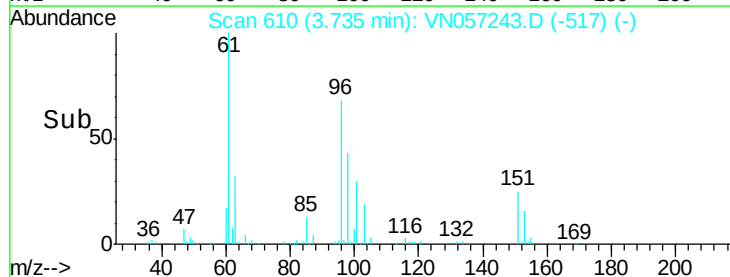
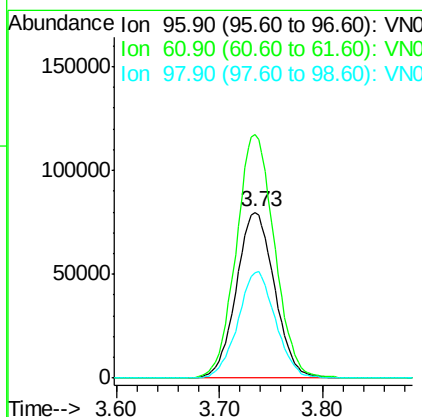
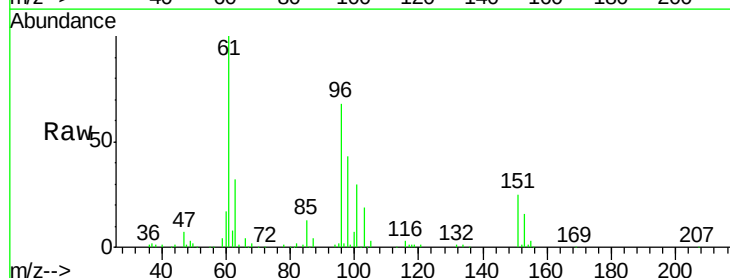
MMDadoda
8/14/2019 12:29:46 PM

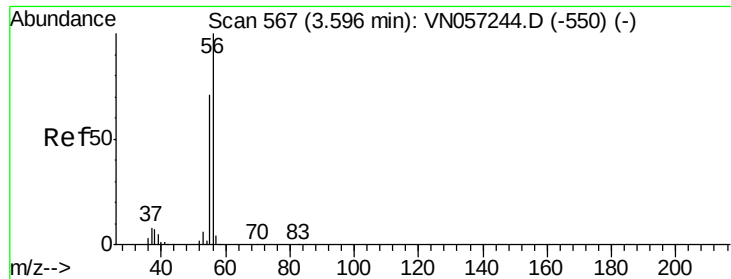


#12

1,1-Dichloroethene
Concen: 17.827 ug/l
RT: 3.73 min Scan# 610
Delta R.T. 0.00 min
Lab File: VN057243.D
Acq: 13 Aug 2019 12:15

Tgt Ion	Ratio	Lower	Upper
96	100		
61	146.7	121.1	181.7
98	63.6	52.0	78.0





#13

Acrolein

Concen: 122.582 ug/l

RT: 3.60 min Scan# 569

Delta R.T. 0.01 min

Lab File: VN057243.D

Acq: 13 Aug 2019 12:15

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion: 56 Resp: 113734

Ion Ratio Lower Upper

56 100

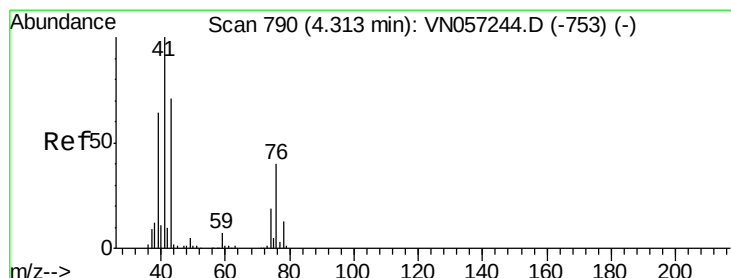
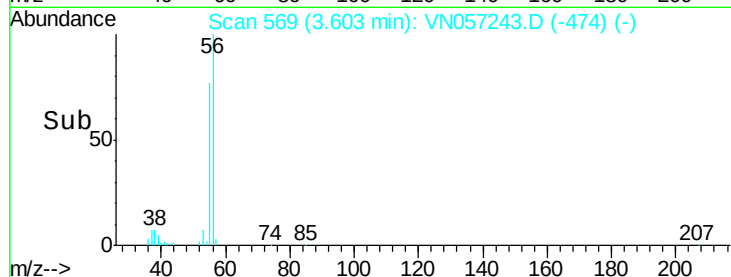
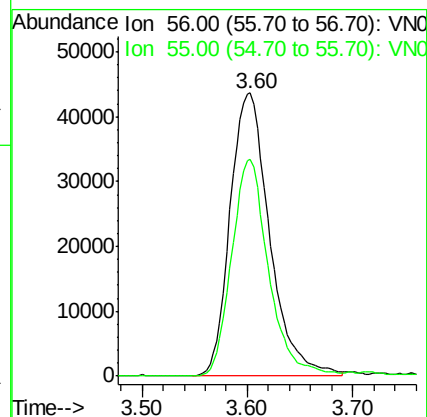
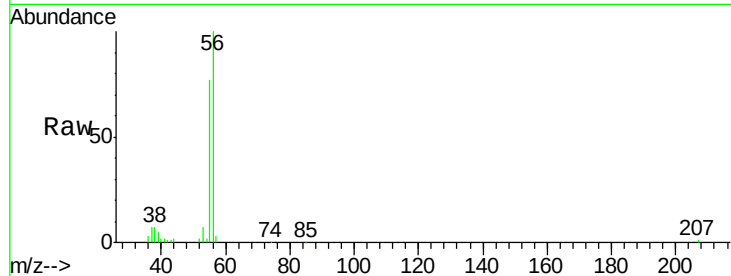
55 71.5 56.6 84.8

Manual Integrations

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#14

Allyl chloride

Concen: 15.812 ug/l

RT: 4.32 min Scan# 791

Delta R.T. 0.00 min

Lab File: VN057243.D

Acq: 13 Aug 2019 12:15

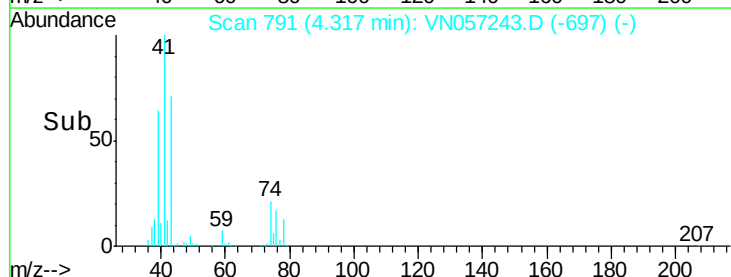
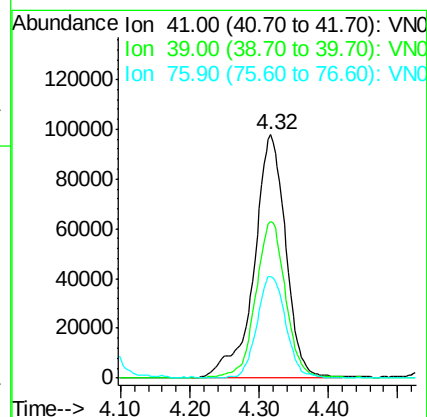
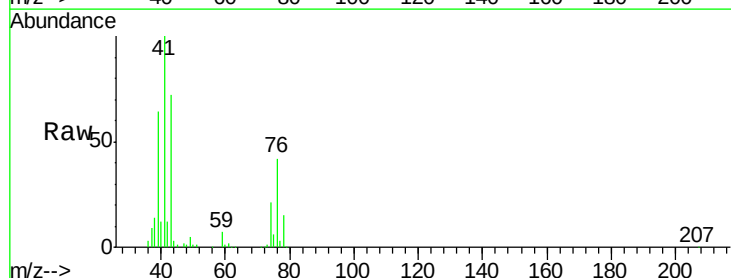
Tgt Ion: 41 Resp: 310133

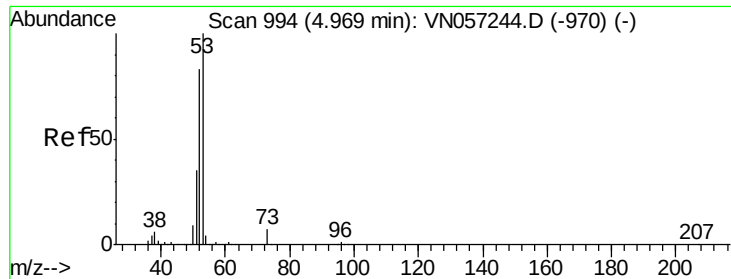
Ion Ratio Lower Upper

41 100

39 60.6 48.5 72.7

76 38.0 29.8 44.8





#15

Acrylonitrile

Concen: 72.355 ug/l

RT: 4.98 min Scan# 996

Delta R.T. 0.01 min

Lab File: VN057243.D

Acq: 13 Aug 2019 12:15

Instrument :

MSVOA_N

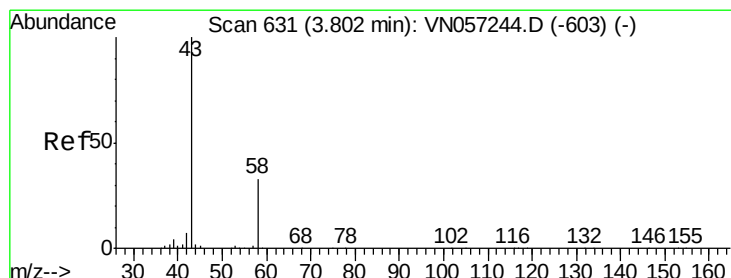
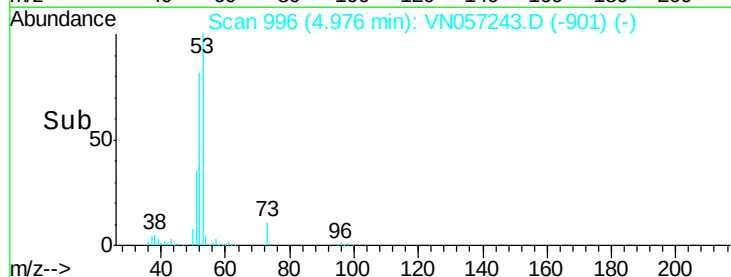
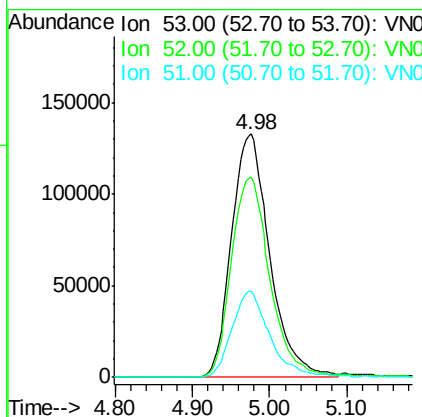
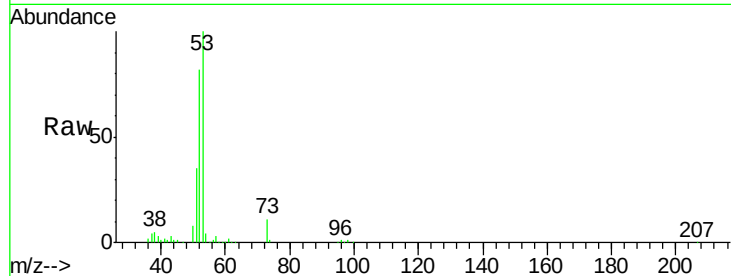
ClientSampleId :

VSTDIC020

Tot Ion:	53	Resp:	456962
Ion	Ratio	Lower	Upper
53	100		
52	82.1	65.9	98.9
51	35.2	27.8	41.6

Manual Integrations
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#16

Acetone

Concen: 74.139 ug/l

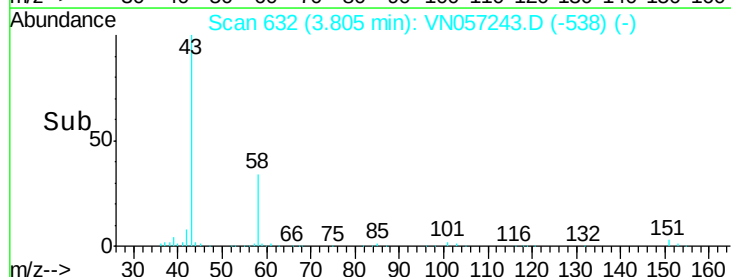
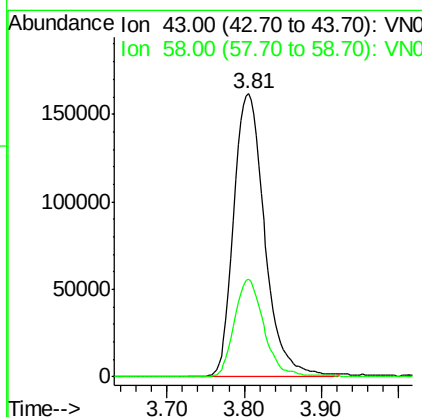
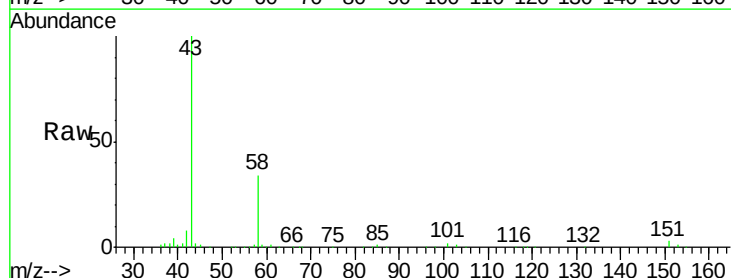
RT: 3.81 min Scan# 632

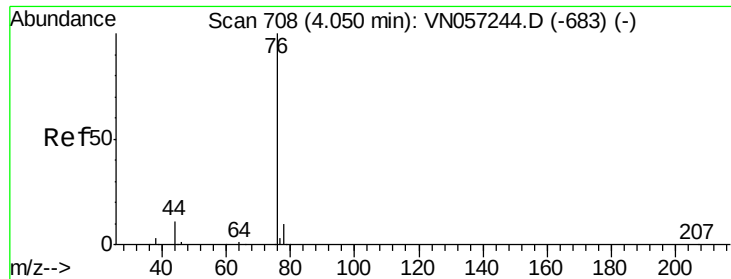
Delta R.T. 0.00 min

Lab File: VN057243.D

Acq: 13 Aug 2019 12:15

Tgt Ion:	43	Resp:	447084
Ion	Ratio	Lower	Upper
43	100		
58	34.5	26.7	40.1





#17

Carbon Disulfide

Concen: 17.609 ug/l

RT: 4.05 min Scan# 708

Delta R.T. 0.00 min

Lab File: VN057243.D

Acq: 13 Aug 2019 12:15

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion: 76 Resp: 541166

Ion Ratio Lower Upper

76 100

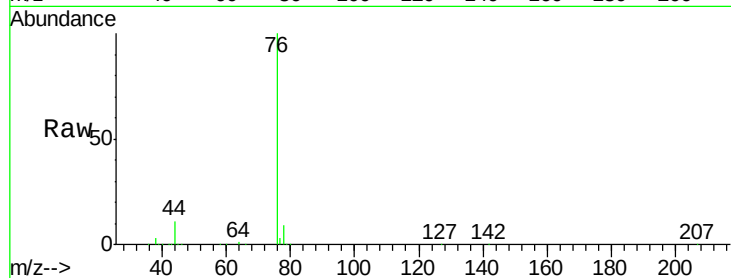
78 9.3 7.7 11.5

Manual Integrations

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Abundance Ion 75.90 (75.60 to 76.60): VNC

Ion 77.90 (77.60 to 78.60): VNC

4.05

200000

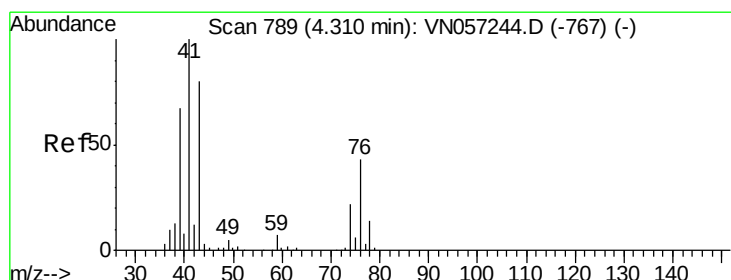
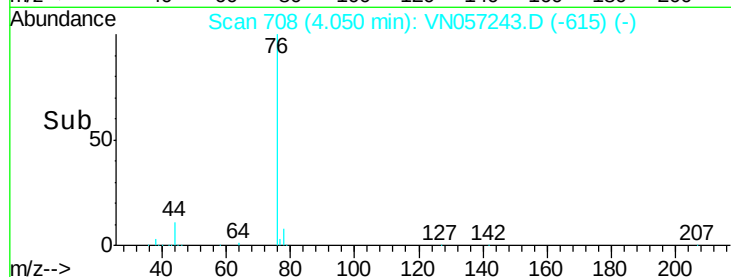
150000

100000

50000

0

Time-->



#18

Methyl Acetate

Concen: 13.407 ug/l

RT: 4.31 min Scan# 789

Delta R.T. 0.00 min

Lab File: VN057243.D

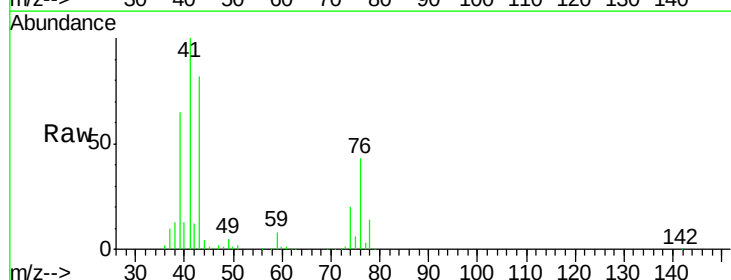
Acq: 13 Aug 2019 12:15

Tgt Ion: 43 Resp: 221325

Ion Ratio Lower Upper

43 100

74 25.9 20.6 31.0



Abundance Ion 43.00 (42.70 to 43.70): VNC

Ion 74.00 (73.70 to 74.70): VNC

4.31

80000

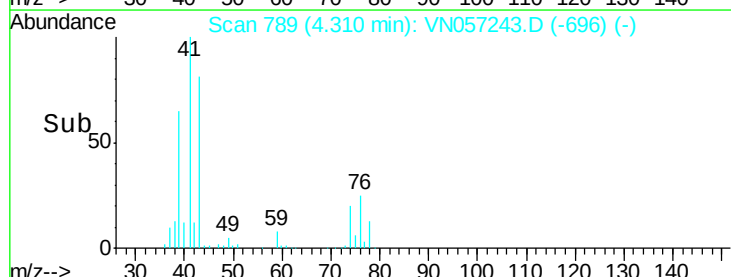
60000

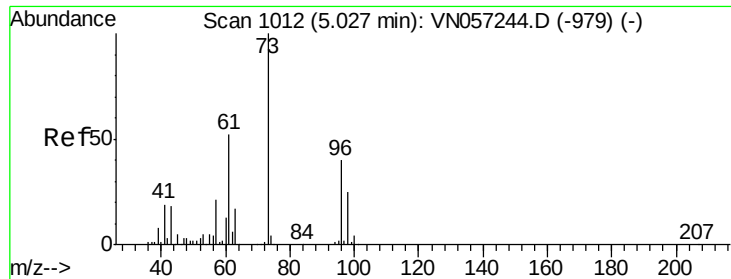
40000

20000

0

Time-->





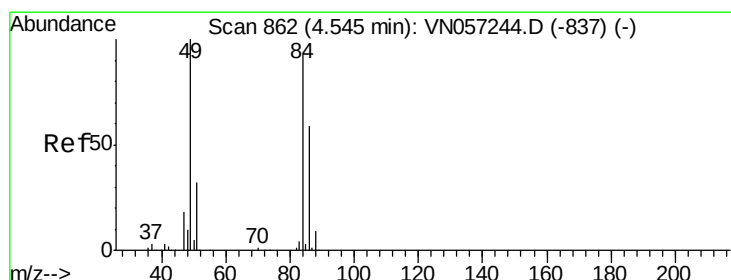
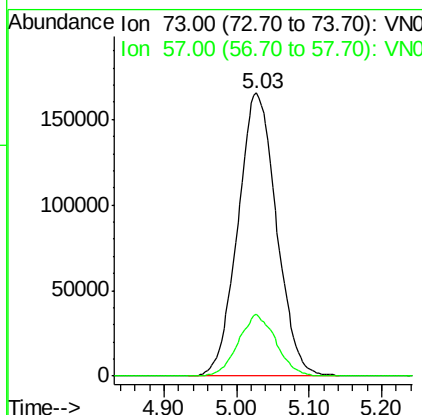
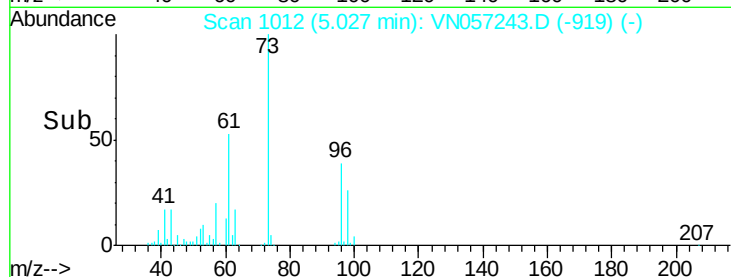
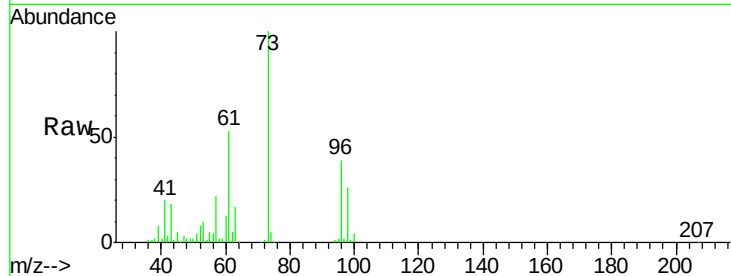
#19
Methyl tert-butyl Ether
Concen: 16.793 ug/l
RT: 5.03 min Scan# 1012
Delta R.T. 0.00 min
Lab File: VN057243.D
Acq: 13 Aug 2019 12:15

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	73	Resp	612609
Ion Ratio	Lower	Upper	
73	100		
57	21.8	17.1	25.7

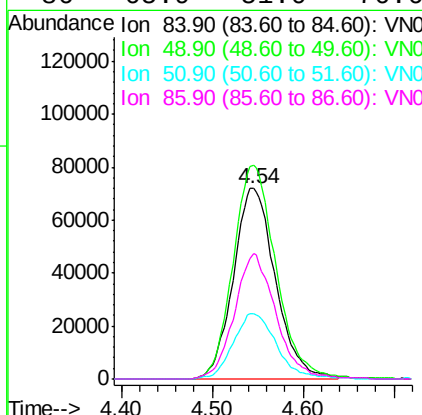
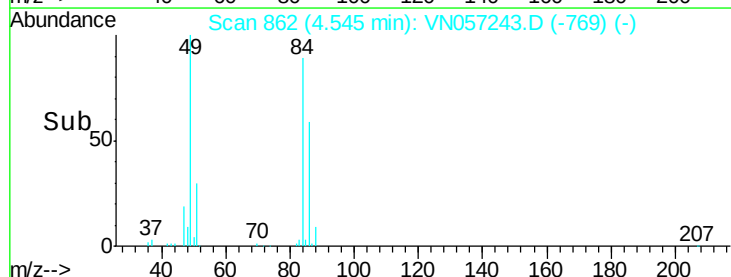
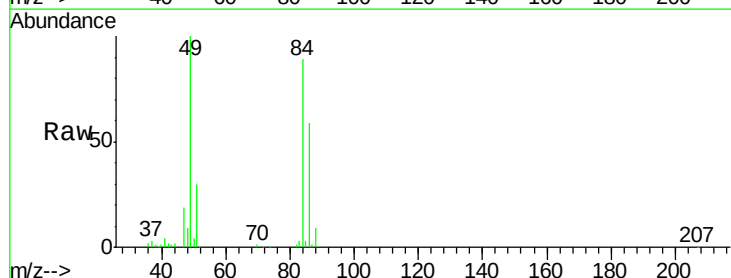
Manual Integrations
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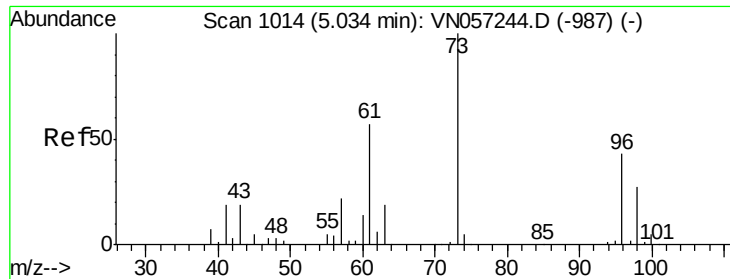
MMDadoda
8/14/2019 12:29:46 PM



#20
Methylene Chloride
Concen: 16.967 ug/l
RT: 4.54 min Scan# 862
Delta R.T. 0.00 min
Lab File: VN057243.D
Acq: 13 Aug 2019 12:15

Tgt Ion	84	Resp	231301
Ion Ratio	Lower	Upper	
84	100		
49	111.8	85.9	128.9
51	33.9	27.1	40.7
86	65.9	51.0	76.6





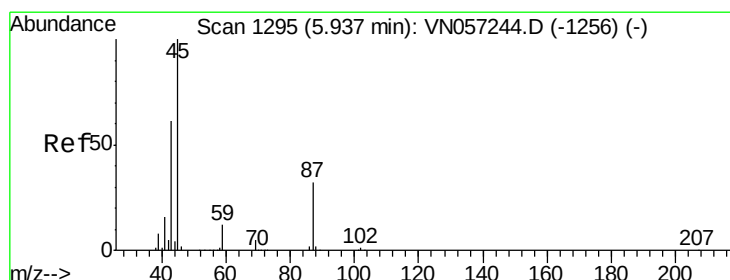
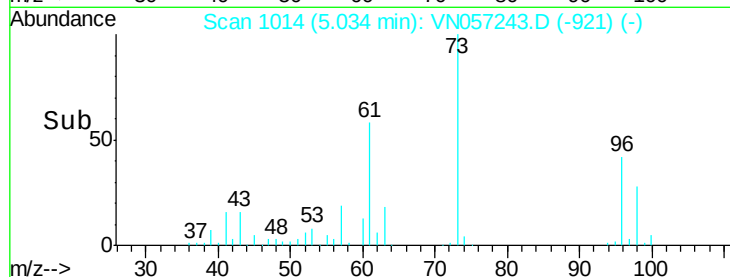
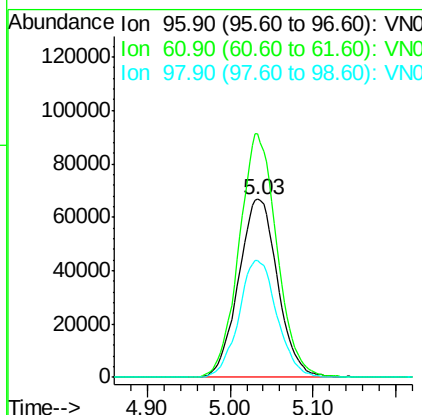
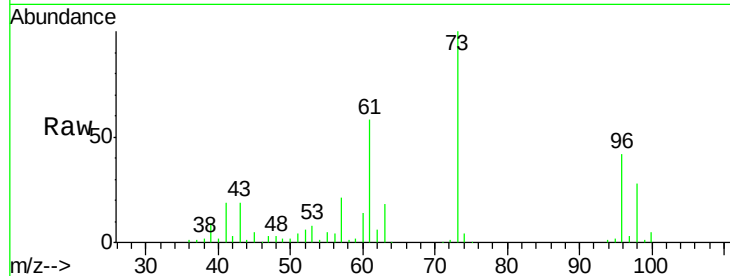
#21
trans-1,2-Dichloroethene
Concen: 17.953 ug/l
RT: 5.03 min Scan# 1014
Delta R.T. 0.00 min
Lab File: VN057243.D
Acq: 13 Aug 2019 12:15

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
96	100		
61	136.5	104.6	156.8
98	66.0	49.7	74.5

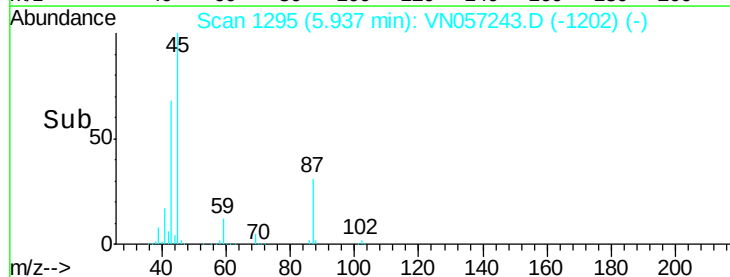
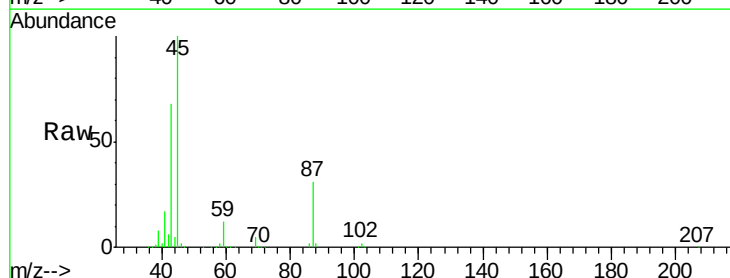
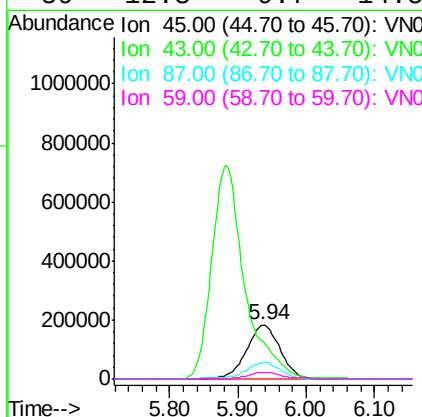
Manual Integrations
APPROVED

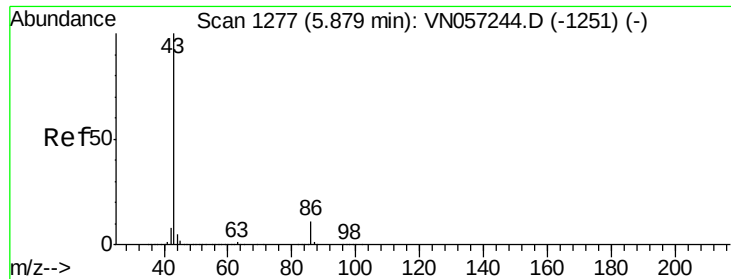
MMDadoda
8/14/2019 12:29:46 PM



#22
Diisopropyl ether
Concen: 16.215 ug/l
RT: 5.94 min Scan# 1295
Delta R.T. 0.00 min
Lab File: VN057243.D
Acq: 13 Aug 2019 12:15

Tgt Ion	Ratio	Lower	Upper
45	100		
43	66.3	48.9	73.3
87	30.6	25.5	38.3
59	12.3	9.7	14.5





#23

Vinyl Acetate

Concen: 78.609 ug/l

RT: 5.88 min Scan# 1278

Delta R.T. 0.00 min

Lab File: VN057243.D

Acq: 13 Aug 2019 12:15

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion: 43 Resp: 2441775

Ion Ratio Lower Upper

43 100

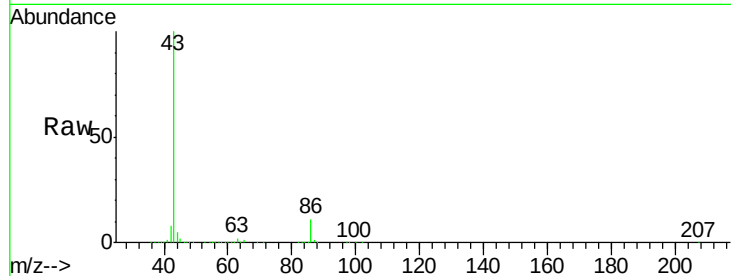
86 11.2 9.2 13.8

Manual Integrations

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8/14/2019 12:29:46 PM



Abundance Ion 43.00 (42.70 to 43.70): VN057243.D (-1277) (-)

Ion 86.00 (85.70 to 86.70): VN057243.D (-1277) (-)

5.88

800000

600000

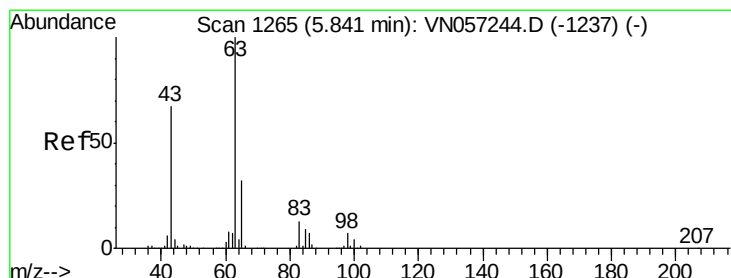
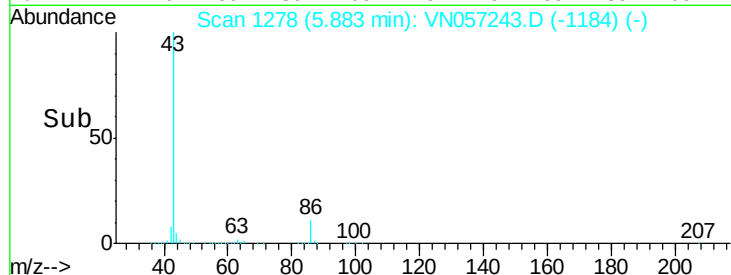
400000

200000

0

5.70 5.80 5.90 6.00 6.10

Time-->



#24

1,1-Dichloroethane

Concen: 16.902 ug/l

RT: 5.84 min Scan# 1264

Delta R.T. -0.00 min

Lab File: VN057243.D

Acq: 13 Aug 2019 12:15

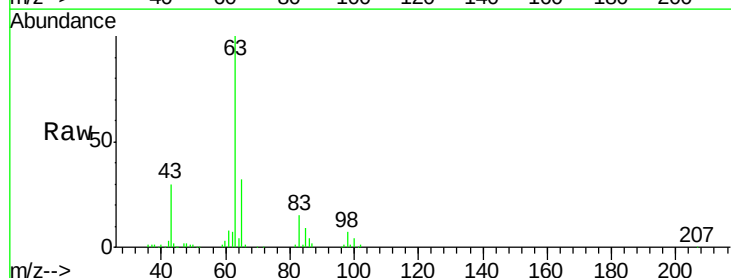
Tgt Ion: 63 Resp: 383134

Ion Ratio Lower Upper

63 100

98 6.6 3.3 9.9

100 4.2 2.1 6.2



Abundance Ion 62.90 (62.60 to 63.60): VN057243.D (-1264) (-)

Ion 97.90 (97.60 to 98.60): VN057243.D (-1264) (-)

Ion 99.90 (99.60 to 100.60): VN057243.D (-1264) (-)

150000

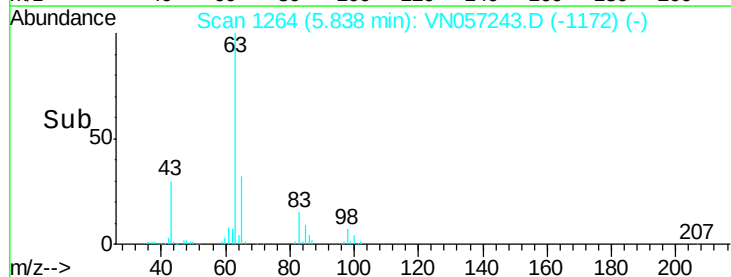
100000

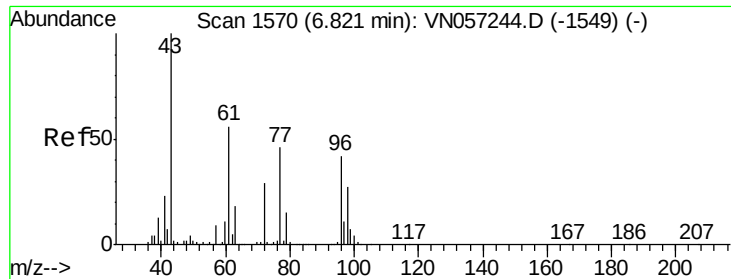
50000

0

5.70 5.80 5.90

Time-->





#25

2-Butanone

Concen: 68.347 ug/l

RT: 6.82 min Scan# 1570

Delta R.T. 0.00 min

Lab File: VN057243.D

Acq: 13 Aug 2019 12:15

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion: 43 Resp: 598407

Ion Ratio Lower Upper

43 100

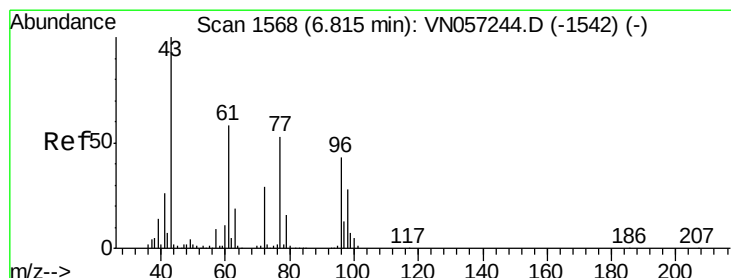
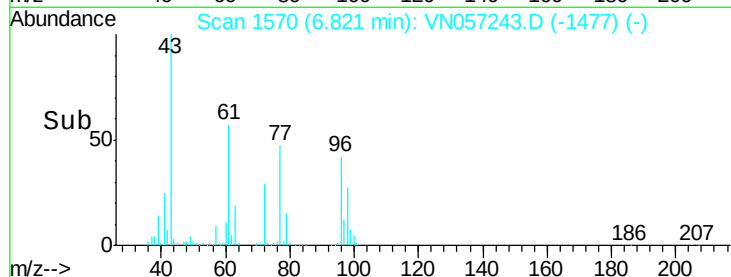
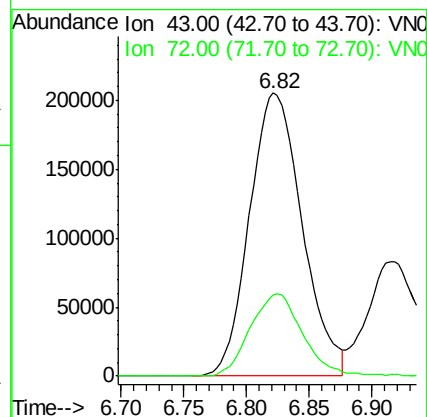
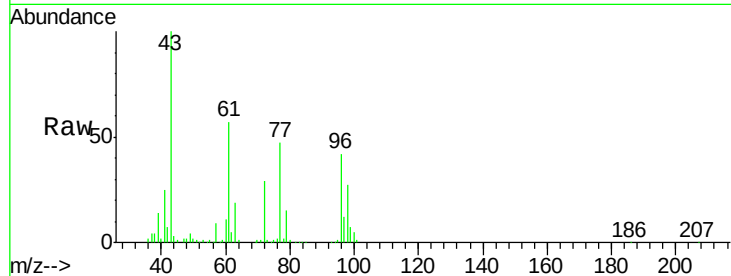
72 28.8 23.1 34.7

Manual Integrations

APPROVED

MMDadoda

8/14/2019 12:29:46 PM



#26

2,2-Dichloropropane

Concen: 19.082 ug/l

RT: 6.81 min Scan# 1568

Delta R.T. 0.00 min

Lab File: VN057243.D

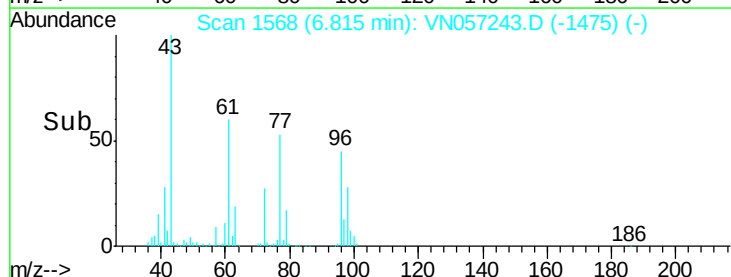
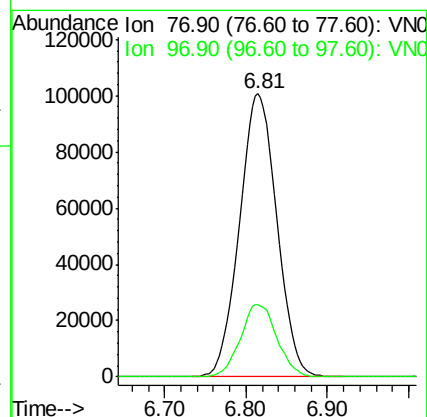
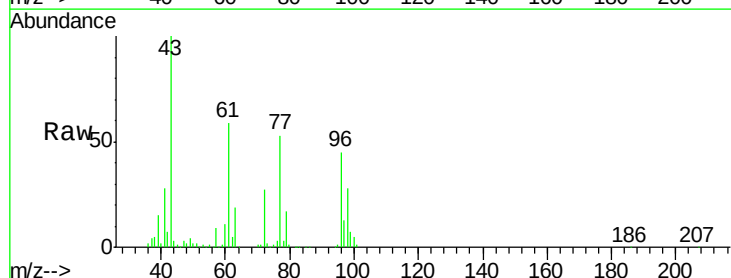
Acq: 13 Aug 2019 12:15

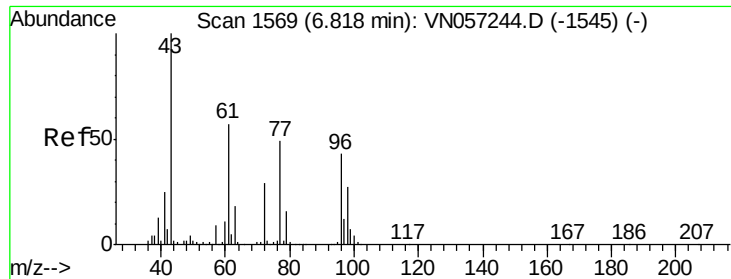
Tgt Ion: 77 Resp: 319069

Ion Ratio Lower Upper

77 100

97 24.9 12.1 36.3





#27

cis-1,2-Dichloroethene

Concen: 18.015 ug/l

RT: 6.82 min Scan# 1569

Delta R.T. 0.00 min

Lab File: VN057243.D

Acq: 13 Aug 2019 12:15

Instrument :

MSVOA_N

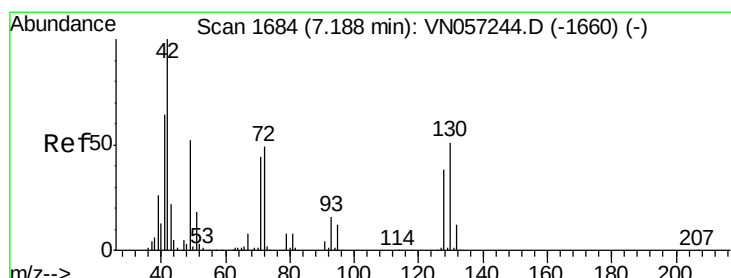
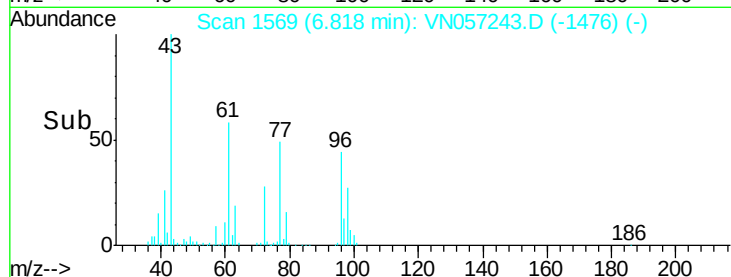
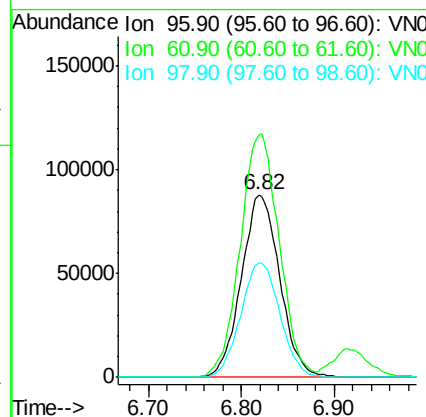
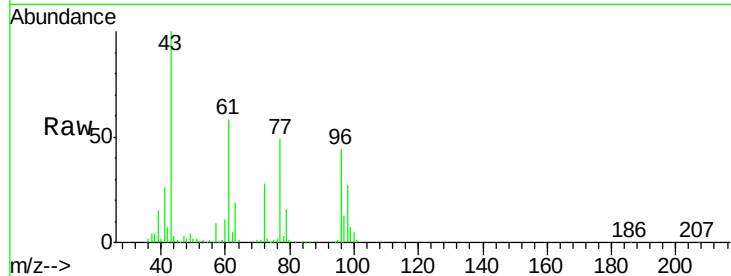
ClientSampleId :

VSTDIC020

Tot Ion:	96	Resp:	253032
Ion Ratio	Lower	Upper	
96	100		
61	135.3	0.0	271.0
98	64.4	0.0	129.2

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#28

Bromochloromethane

Concen: 17.691 ug/l

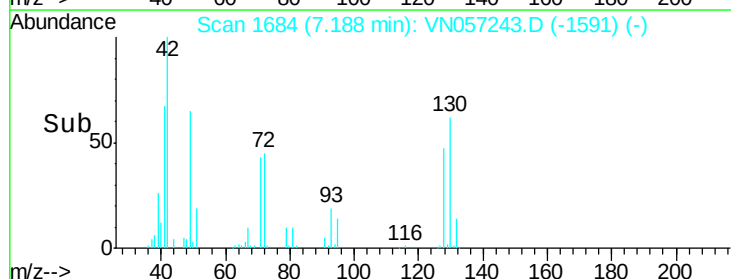
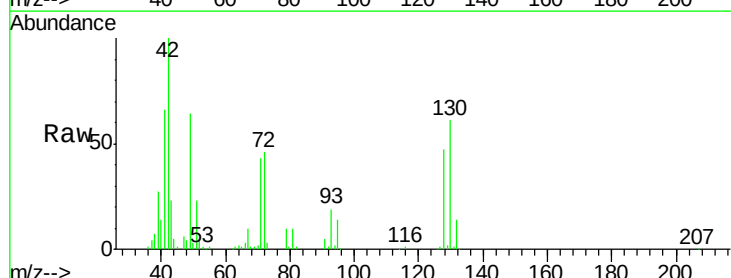
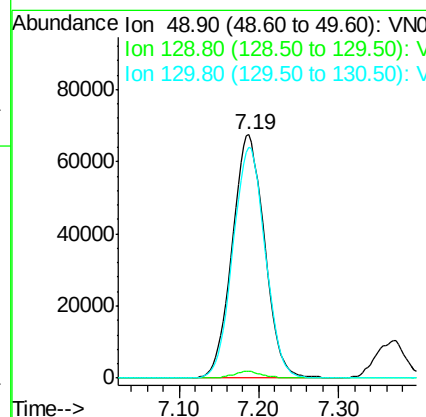
RT: 7.19 min Scan# 1684

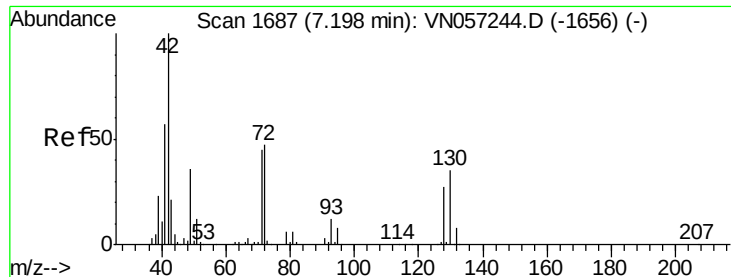
Delta R.T. 0.00 min

Lab File: VN057243.D

Acq: 13 Aug 2019 12:15

Tgt Ion:	49	Resp:	185134
Ion Ratio	Lower	Upper	
49	100		
129	2.4	0.0	3.0
130	94.5	75.6	113.4





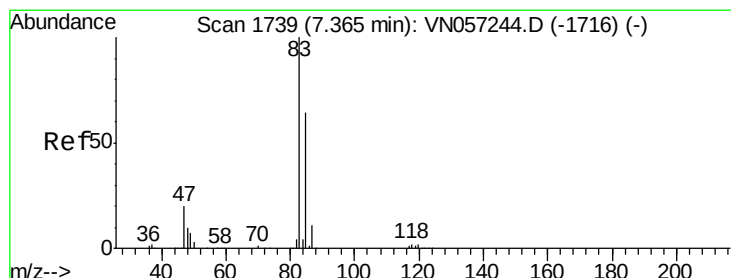
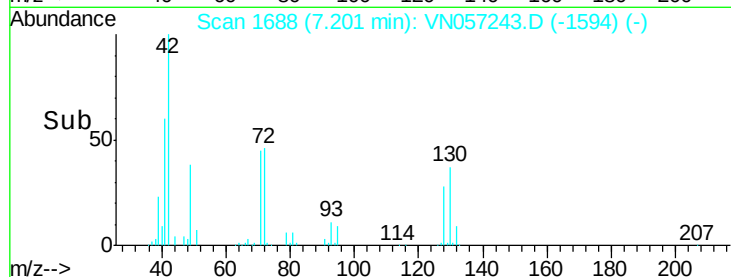
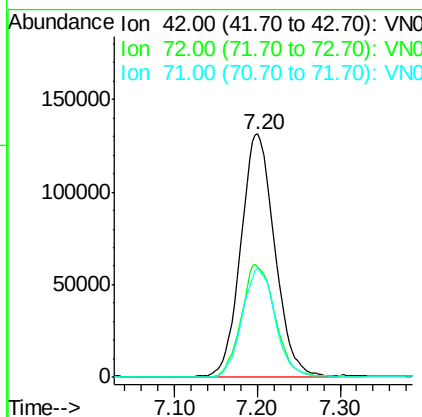
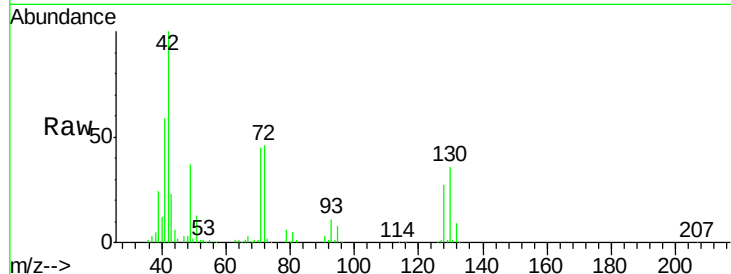
#29
Tetrahydrofuran
Concen: 65.529 ug/l
RT: 7.20 min Scan# 1688
Delta R.T. 0.00 min
Lab File: VN057243.D
Acq: 13 Aug 2019 12:15

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
42	100		
72	46.5	37.6	56.4
71	43.7	35.6	53.4

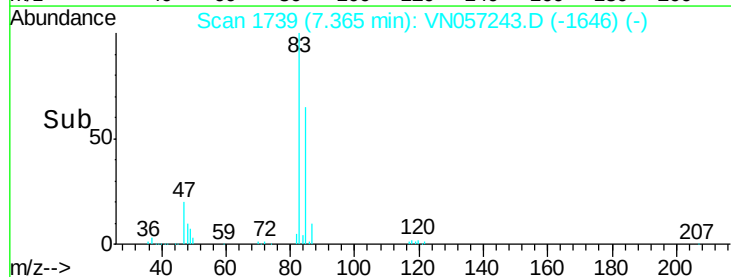
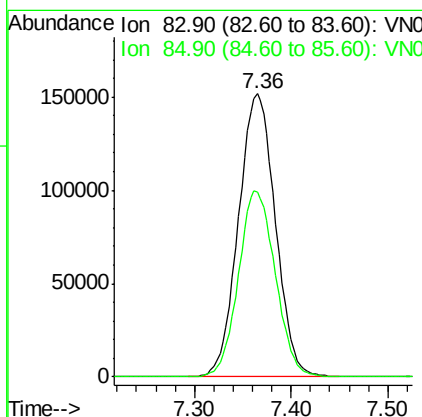
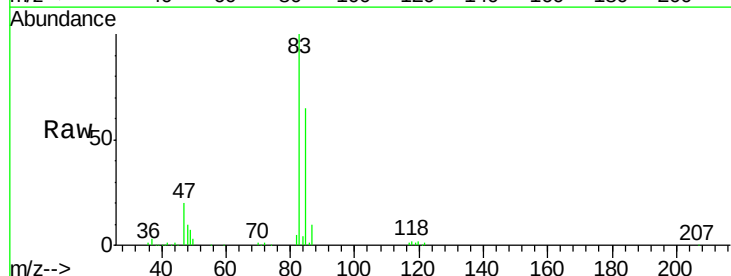
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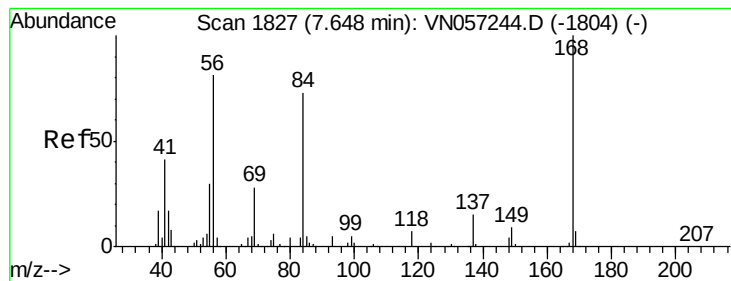
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#30
Chloroform
Concen: 17.617 ug/l
RT: 7.36 min Scan# 1739
Delta R.T. 0.00 min
Lab File: VN057243.D
Acq: 13 Aug 2019 12:15

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.3	51.3	76.9





#31

Cyclohexane

Concen: 16.119 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. 0.00 min

Lab File: VN057243.D

Acq: 13 Aug 2019 12:15

Instrument :

MSVOA_N

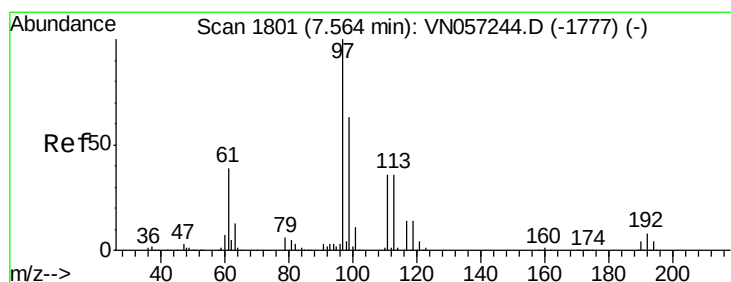
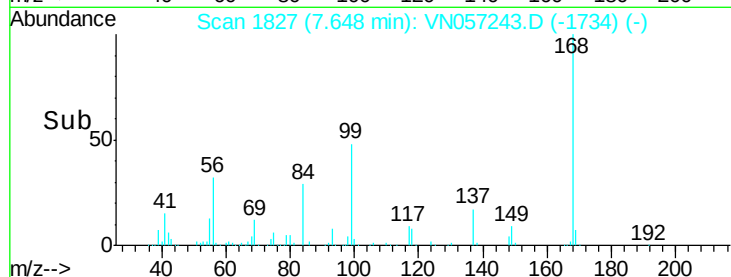
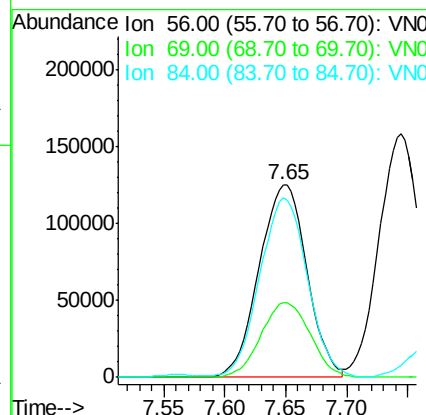
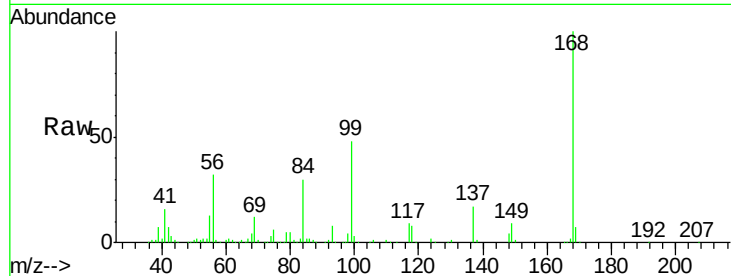
ClientSampled :

VSTDIC020

Tot Ion	Ion	Ratio	Resp	Lower	Upper
56	100		340514		
69	38.8	27.8	41.8		
84	91.8	72.0	108.0		

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#32

1,1,1-Trichloroethane

Concen: 19.022 ug/l

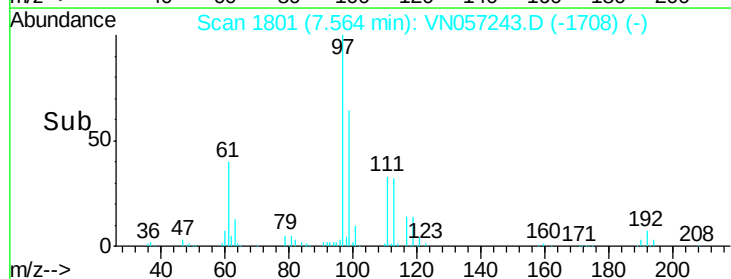
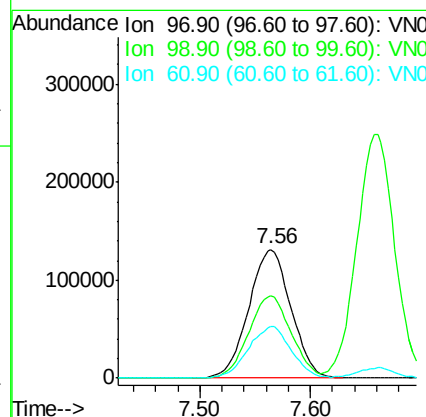
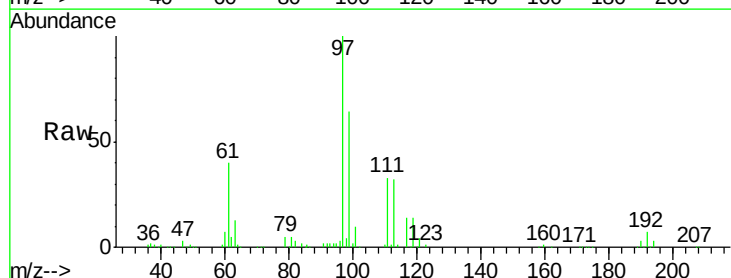
RT: 7.56 min Scan# 1801

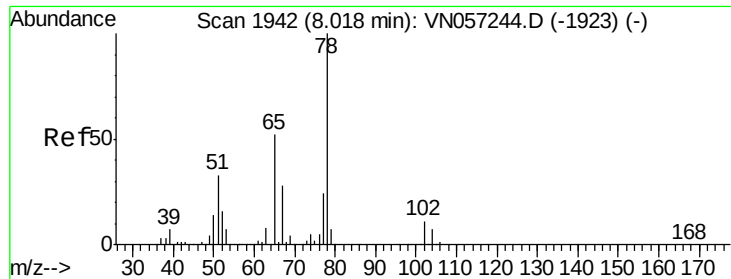
Delta R.T. 0.00 min

Lab File: VN057243.D

Acq: 13 Aug 2019 12:15

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
97	100		347462		
99	64.5	51.7	77.5		
61	40.9	32.1	48.1		





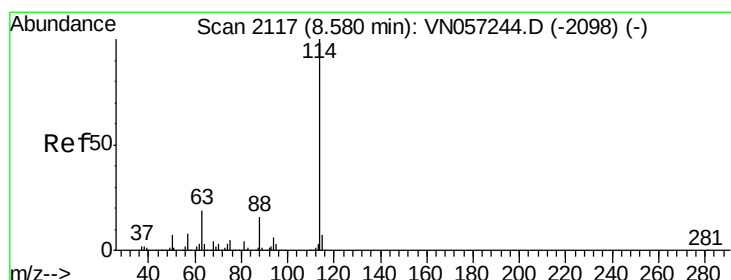
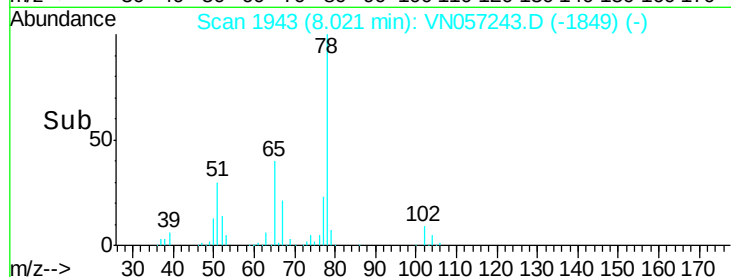
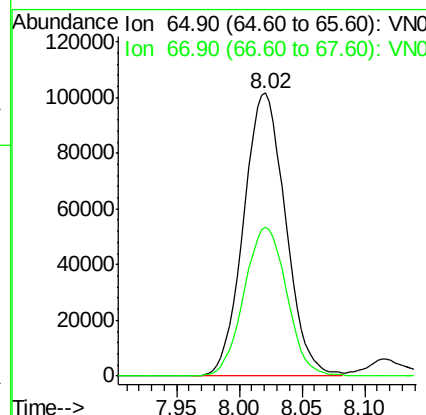
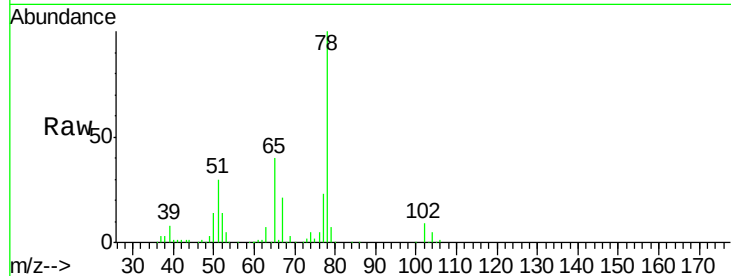
#33
 1,2-Dichloroethane-d4
 Concen: 17.432 ug/l
 RT: 8.02 min Scan# 1943
 Delta R.T. 0.00 min
 Lab File: VN057243.D
 Acq: 13 Aug 2019 12:15

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
65	100	236946		
67	53.6	0.0	107.0	

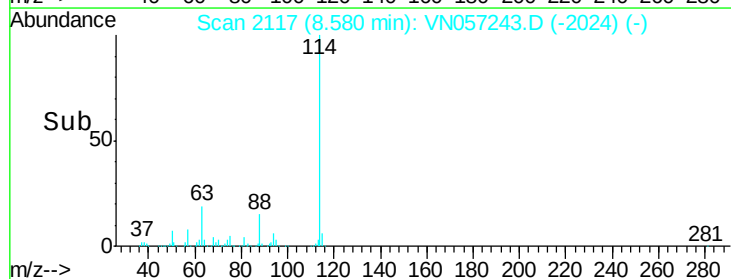
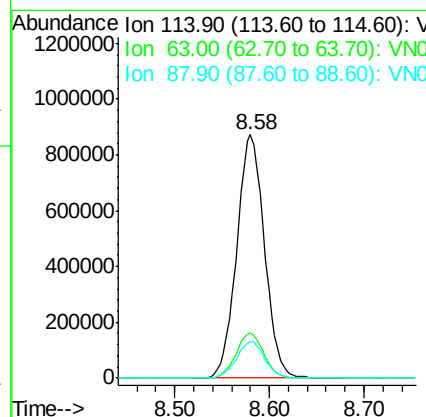
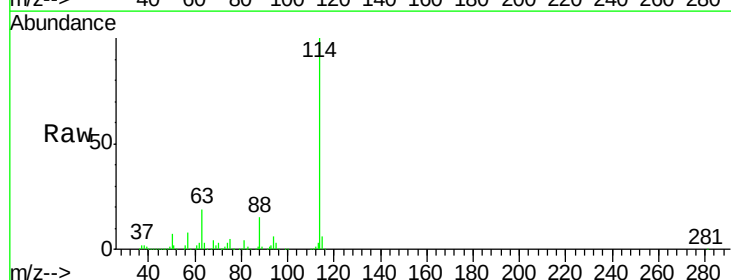
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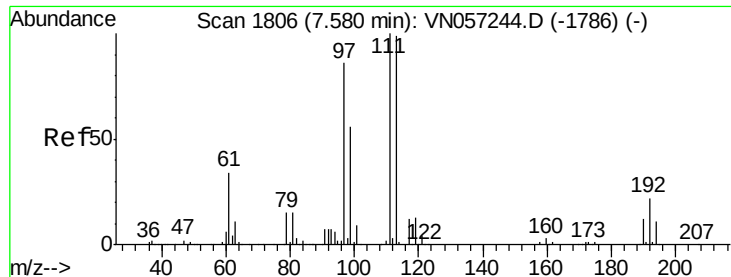
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2117
 Delta R.T. -0.00 min
 Lab File: VN057243.D
 Acq: 13 Aug 2019 12:15

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	1774530		
63	18.5	0.0	37.0	
88	15.1	0.0	31.0	





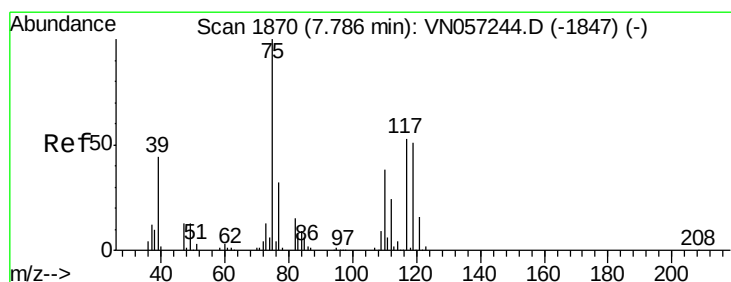
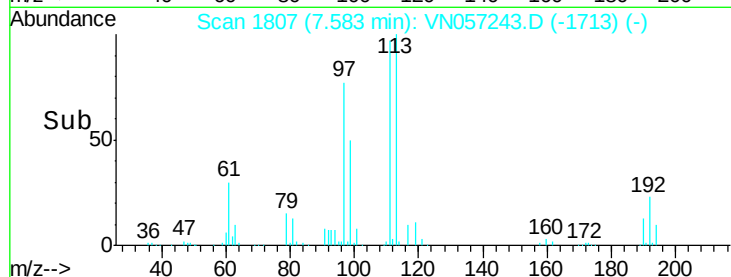
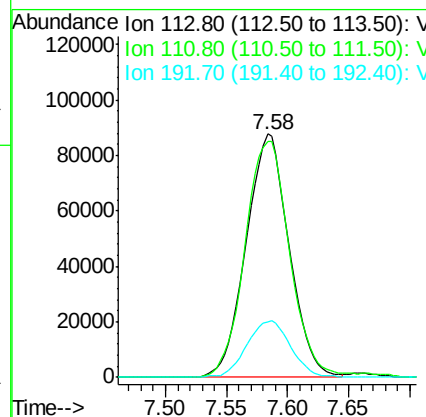
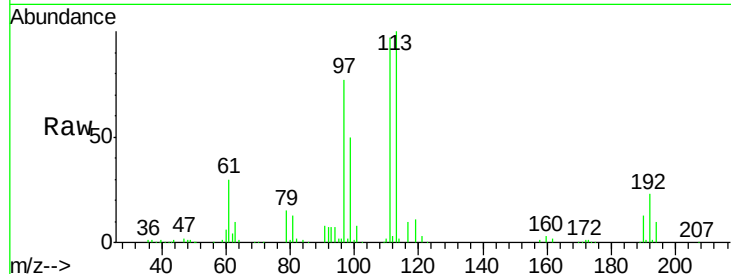
#35
 Dibromofluoromethane
 Concen: 19.127 ug/l
 RT: 7.58 min Scan# 1807
 Delta R.T. 0.00 min
 Lab File: VN057243.D
 Acq: 13 Aug 2019 12:15

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
113	100	213809		
111	101.2		81.4	122.2
192	23.7		18.8	28.2

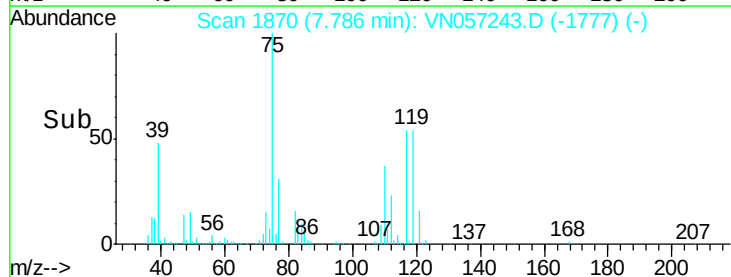
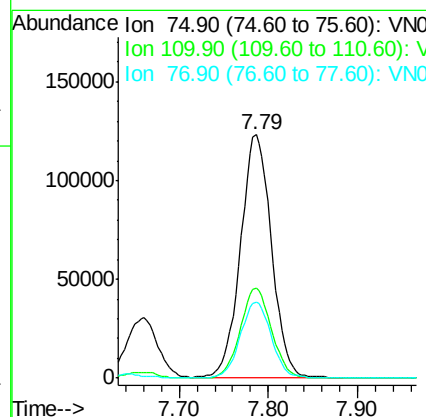
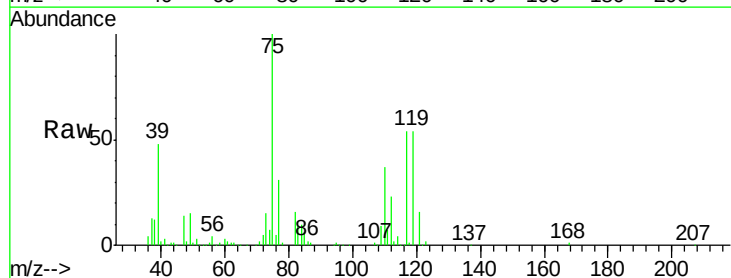
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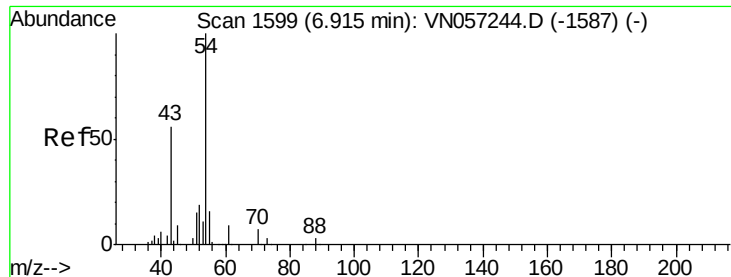
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#36
 1,1-Dichloropropene
 Concen: 18.194 ug/l
 RT: 7.79 min Scan# 1870
 Delta R.T. 0.00 min
 Lab File: VN057243.D
 Acq: 13 Aug 2019 12:15

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	297955		
110	37.0		19.1	57.1
77	31.3		25.2	37.8





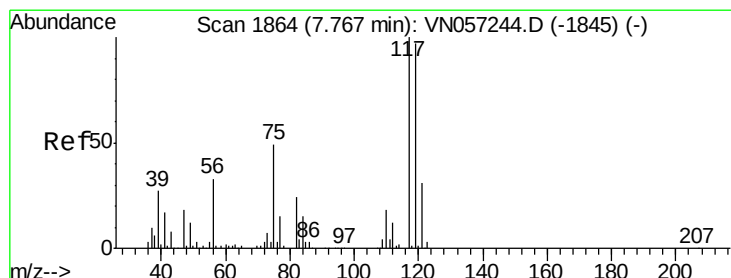
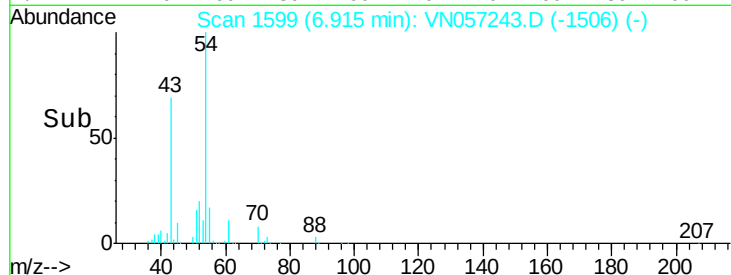
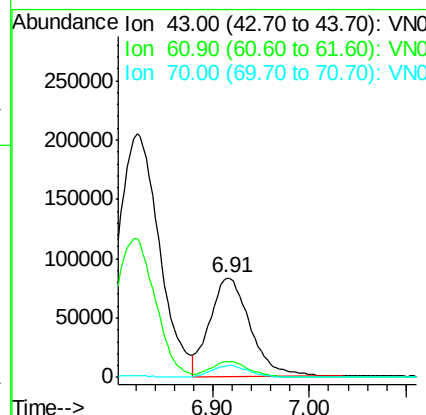
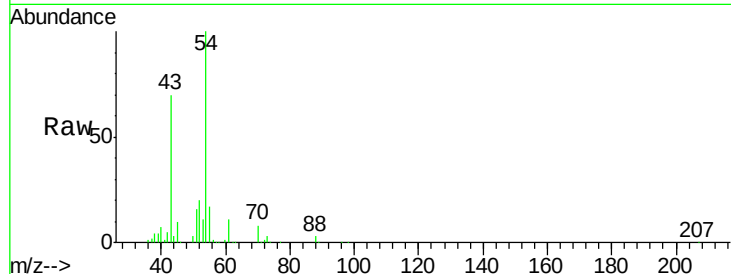
#37
Ethyl Acetate
Concen: 15.517 ug/l
RT: 6.91 min Scan# 1599
Delta R.T. 0.00 min
Lab File: VN057243.D
Acq: 13 Aug 2019 12:15

Instrument :
MSVOA_N
ClientSampled :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
43	100		
61	15.3	12.7	19.1
70	11.3	9.0	13.4

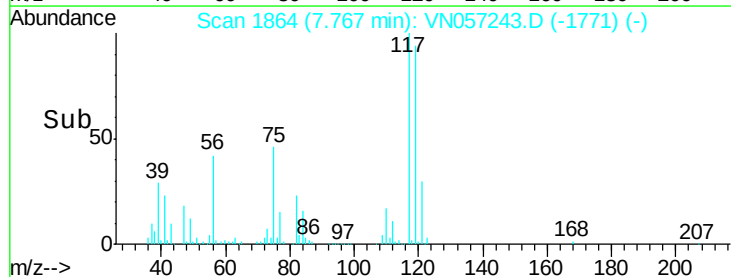
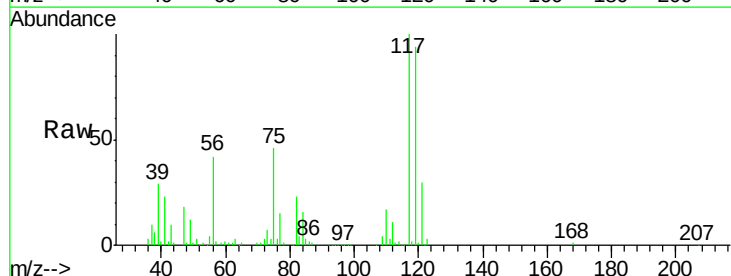
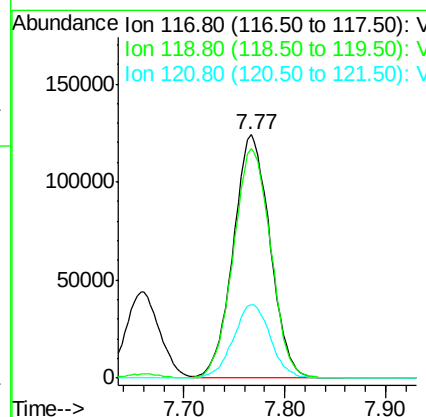
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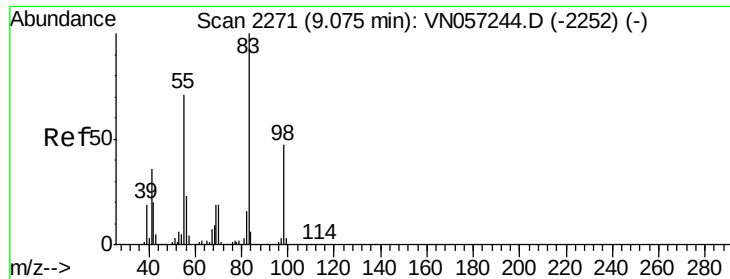
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#38
Carbon Tetrachloride
Concen: 20.103 ug/l
RT: 7.77 min Scan# 1864
Delta R.T. 0.00 min
Lab File: VN057243.D
Acq: 13 Aug 2019 12:15

Tgt Ion	Ratio	Lower	Upper
117	100		
119	94.2	77.8	116.6
121	30.1	24.9	37.3





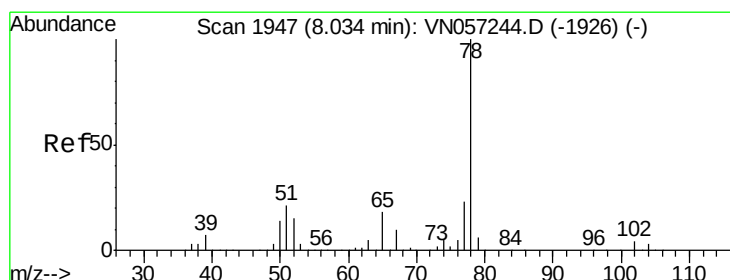
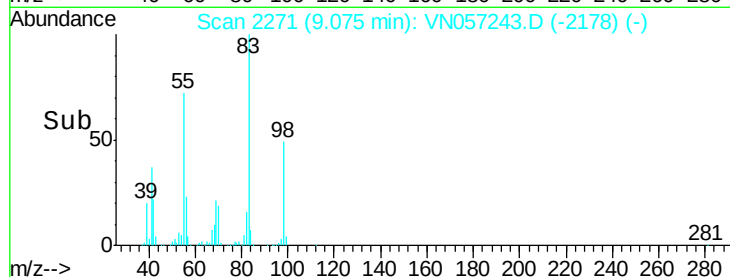
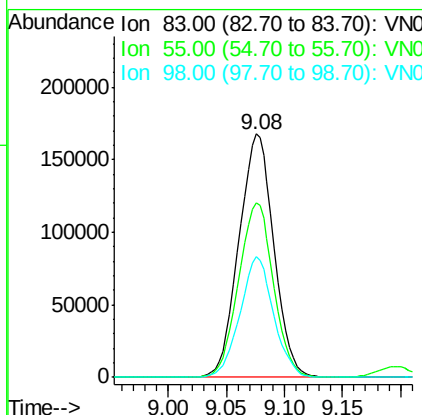
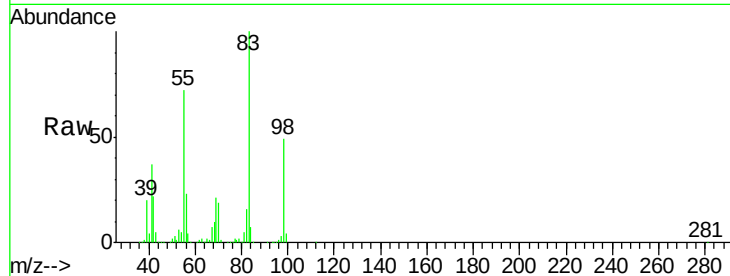
#39
Methylvlcyclohexane
Concen: 17.469 ug/l
RT: 9.08 min Scan# 2271
Delta R.T. 0.00 min
Lab File: VN057243.D
Acq: 13 Aug 2019 12:15

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	83	Resp	350838
Ion	Ratio	Lower	Upper
83	100		
55	71.7	57.0	85.4
98	49.4	37.2	55.8

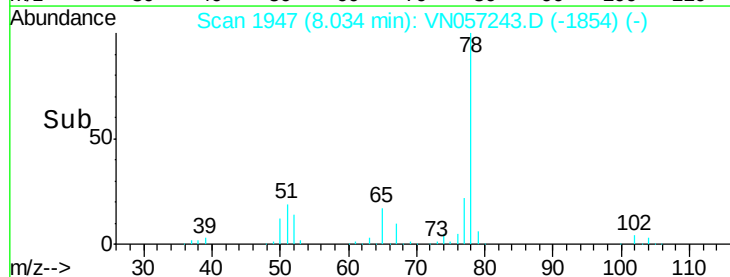
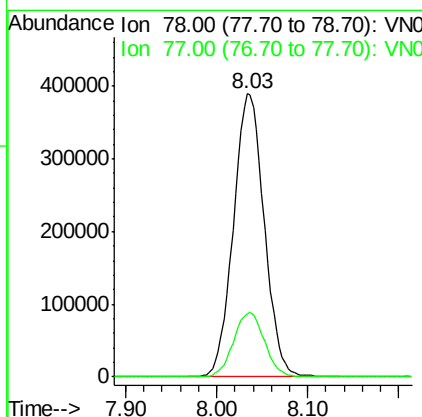
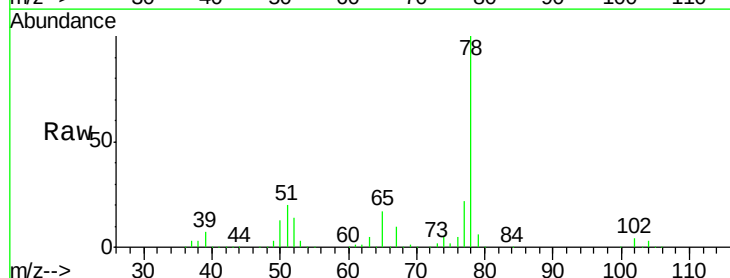
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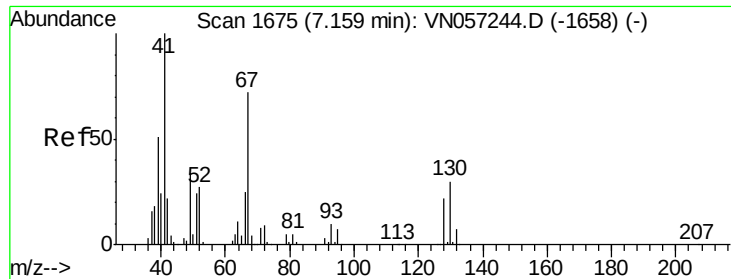
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#40
Benzene
Concen: 18.321 ug/l
RT: 8.03 min Scan# 1947
Delta R.T. 0.00 min
Lab File: VN057243.D
Acq: 13 Aug 2019 12:15

Tgt Ion	78	Resp	915057
Ion	Ratio	Lower	Upper
78	100		
77	22.3	18.2	27.4





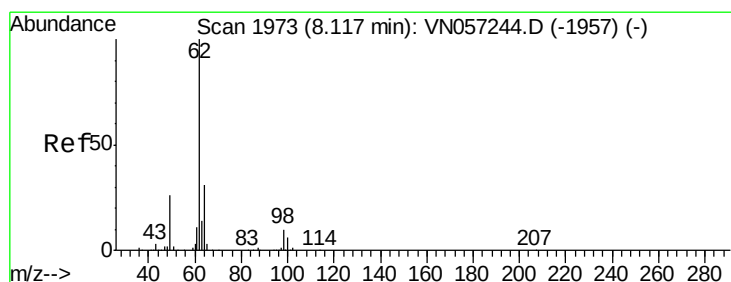
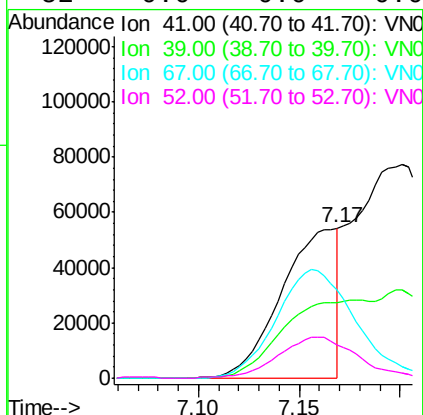
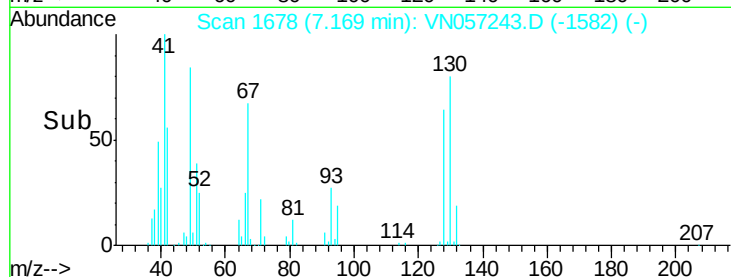
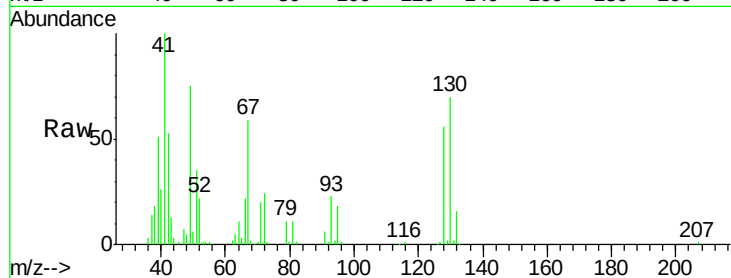
#41
Methacrylonitrile
Concen: 15.571 ug/l m
RT: 7.17 min Scan# 1678
Delta R.T. 0.01 min
Lab File: VN057243.D
Acq: 13 Aug 2019 12:15

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ion	Ratio	Resp	Lower	Upper
41	100		104775		
39	0.0	0.0	0.0		
67	0.0	0.0	0.0		
52	0.0	0.0	0.0		

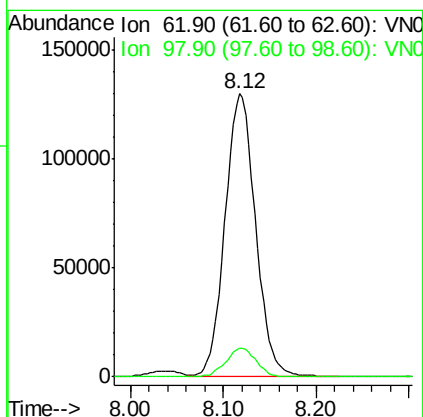
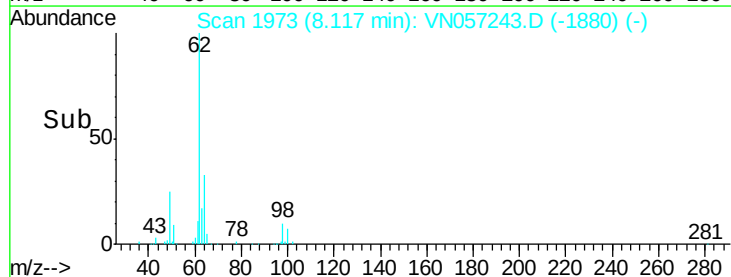
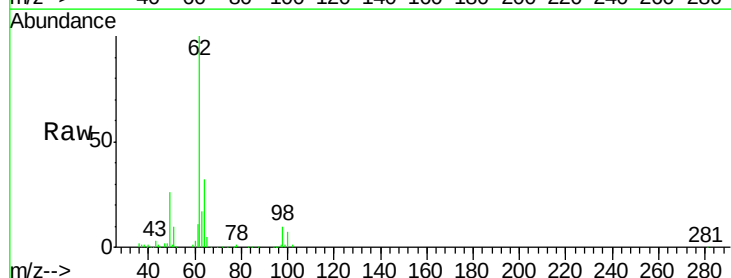
Manual Integrations
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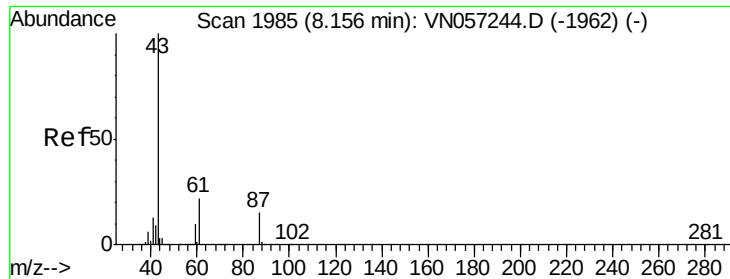
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#42
1,2-Dichloroethane
Concen: 18.617 ug/l
RT: 8.12 min Scan# 1973
Delta R.T. 0.00 min
Lab File: VN057243.D
Acq: 13 Aug 2019 12:15

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
62	100		295303		
98	10.1	0.0	20.0		





#43

Isopropyl Acetate

Concen: 16.044 ug/l

RT: 8.16 min Scan# 1985

Delta R.T. 0.00 min

Lab File: VN057243.D

Acq: 13 Aug 2019 12:15

Instrument :

MSVOA_N

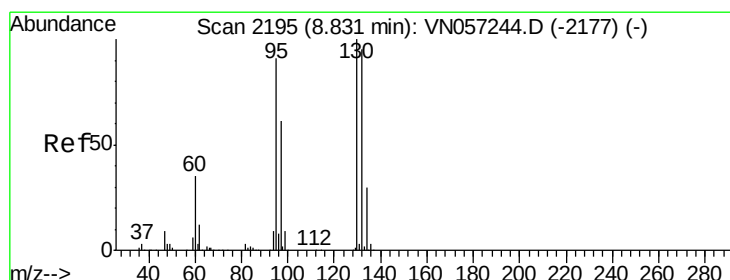
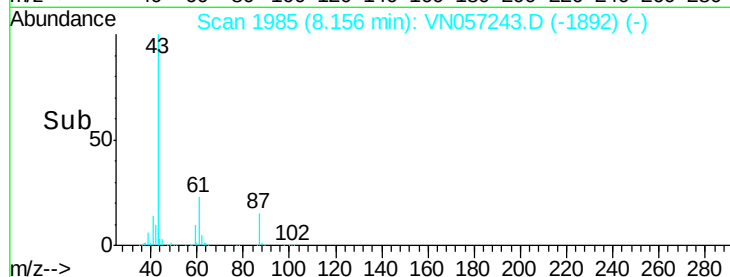
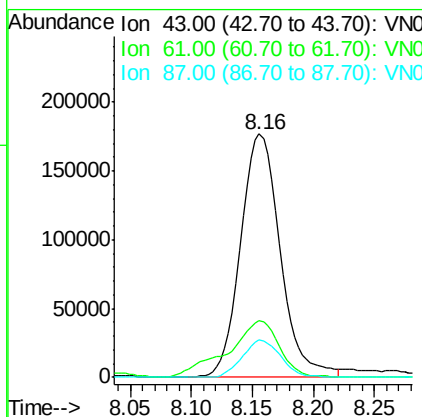
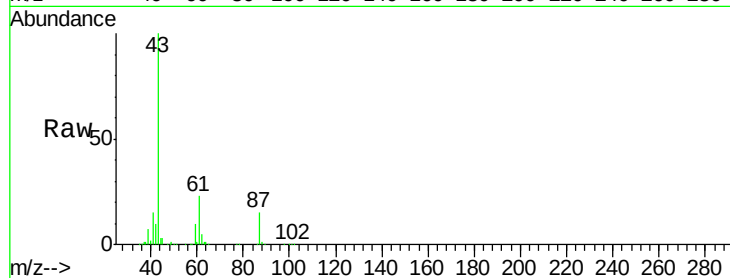
ClientSampleId :

VSTDIC020

Tot Ion:	43	Resp:	396150
Ion	Ratio	Lower	Upper
43	100		
61	29.9	23.5	35.3
87	14.8	12.1	18.1

Manual Integrations
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#44

Trichloroethene

Concen: 18.881 ug/l

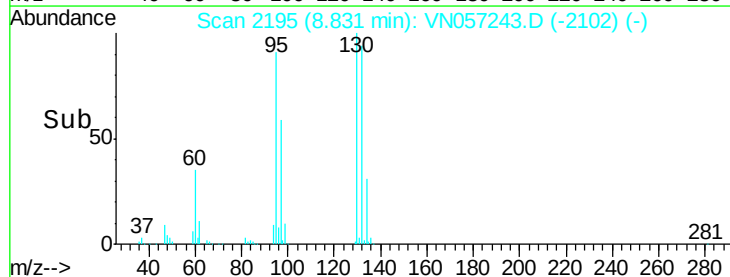
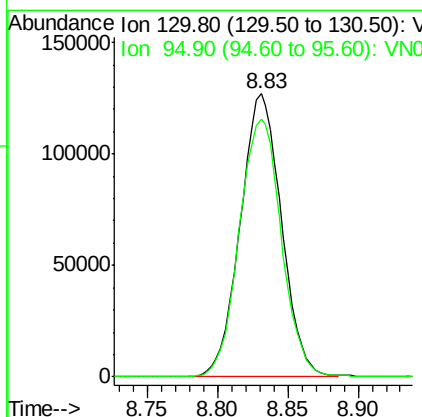
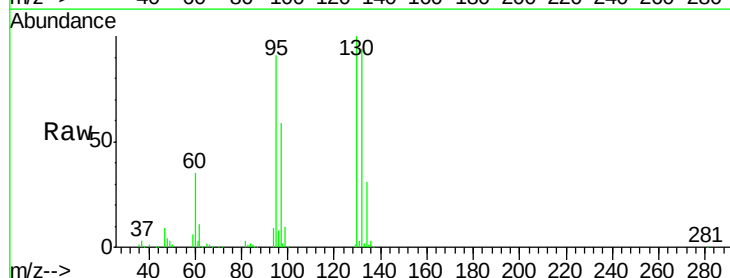
RT: 8.83 min Scan# 2195

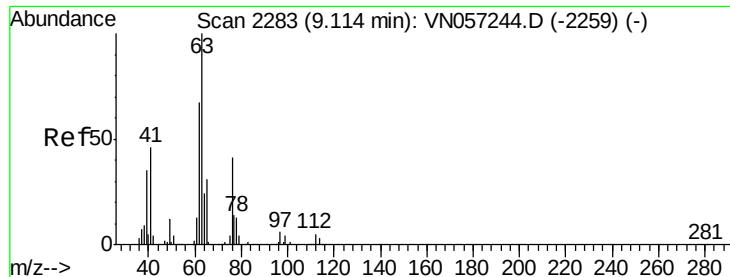
Delta R.T. 0.00 min

Lab File: VN057243.D

Acq: 13 Aug 2019 12:15

Tgt Ion:	130	Resp:	259332
Ion	Ratio	Lower	Upper
130	100		
95	90.9	0.0	181.8





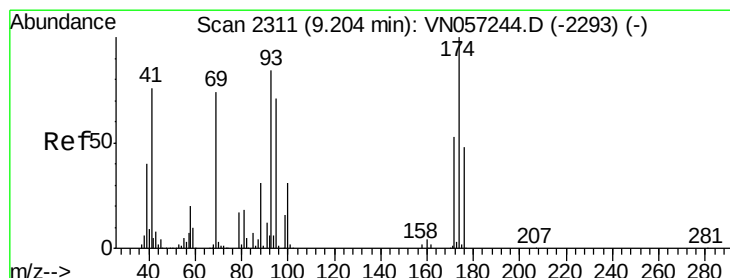
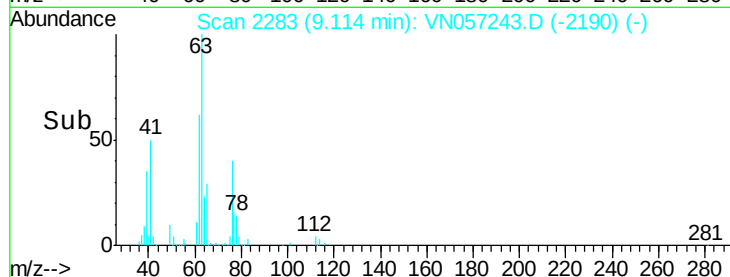
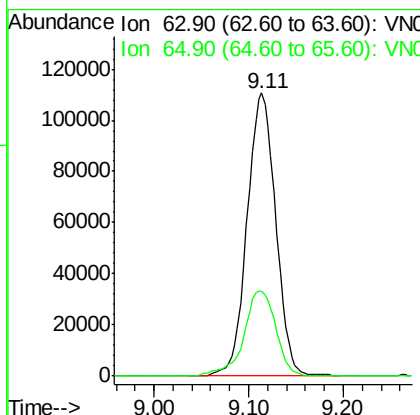
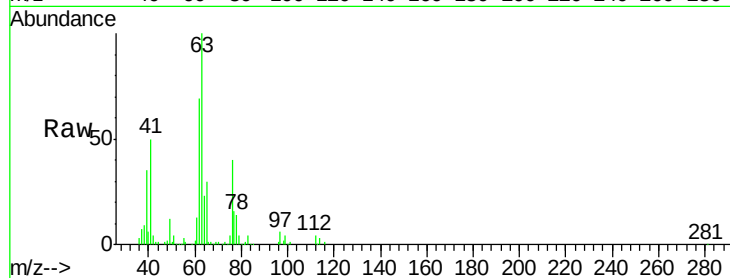
#45
 1,2-Dichloropropane
 Concen: 17.703 ug/l
 RT: 9.11 min Scan# 2283
 Delta R.T. 0.00 min
 Lab File: VN057243.D
 Acq: 13 Aug 2019 12:15

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
63	100	232916		
65	29.9	25.0	37.4	

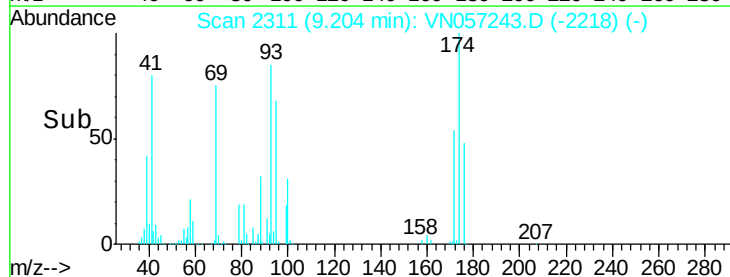
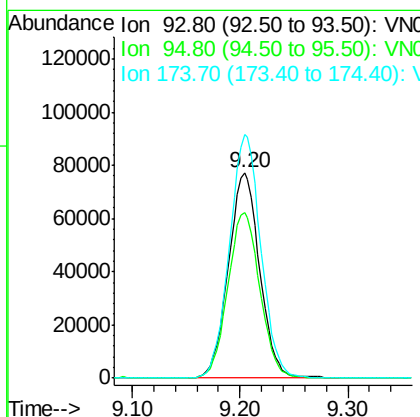
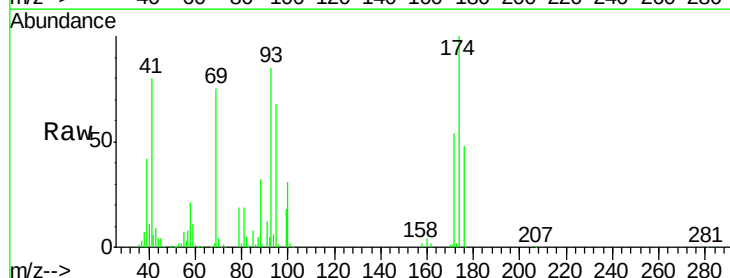
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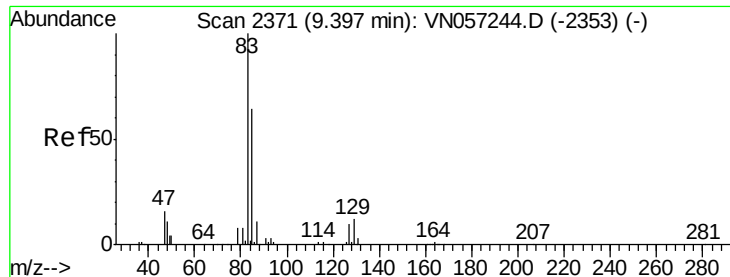
MMDadoda
 8/14/2019 12:29:46 PM



#46
 Dibromomethane
 Concen: 18.942 ug/l
 RT: 9.20 min Scan# 2311
 Delta R.T. 0.00 min
 Lab File: VN057243.D
 Acq: 13 Aug 2019 12:15

Tgt Ion	Ratio	Resp	Lower	Upper
93	100	156248		
95	82.4	67.0	100.4	
174	118.9	96.2	144.2	





#47

Bromodichloromethane

Concen: 19.154 ug/l

RT: 9.40 min Scan# 2372

Delta R.T. 0.00 min

Lab File: VN057243.D

Acq: 13 Aug 2019 12:15

Instrument :

MSVOA_N

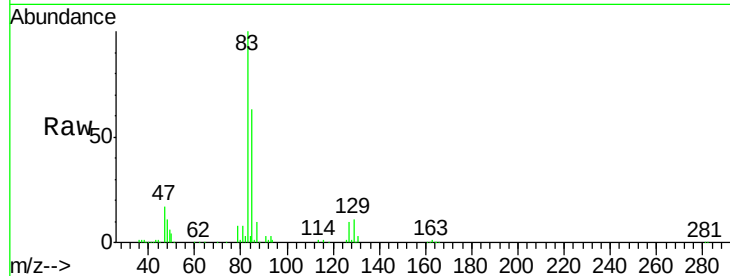
ClientSampleId :

VSTDIC020

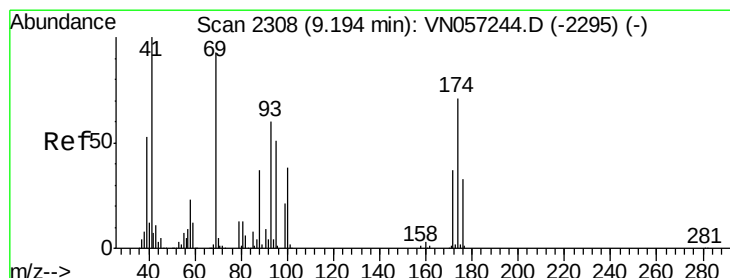
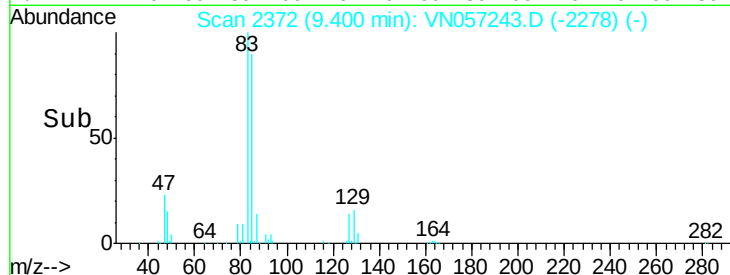
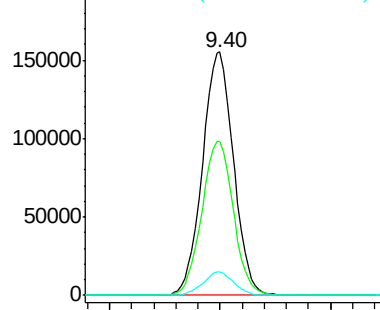
Tot Ion:	83	Resp:	302417
Ion Ratio		Lower	Upper
83	100		
85	63.1	51.4	77.0
127	9.6	7.7	11.5

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Abundance Ion 82.90 (82.60 to 83.60): VN057243.D (-2278) (-)



#48

Methyl methacrylate

Concen: 15.221 ug/l

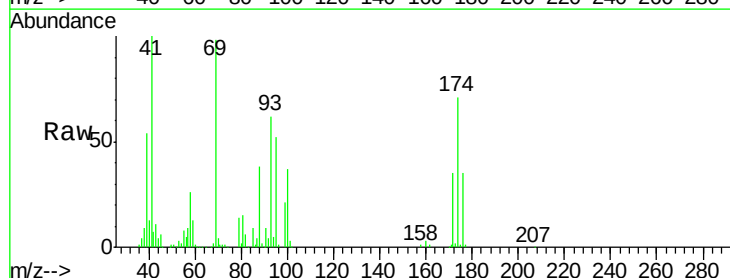
RT: 9.19 min Scan# 2308

Delta R.T. 0.00 min

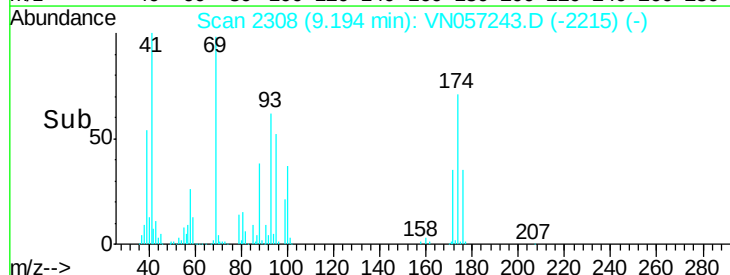
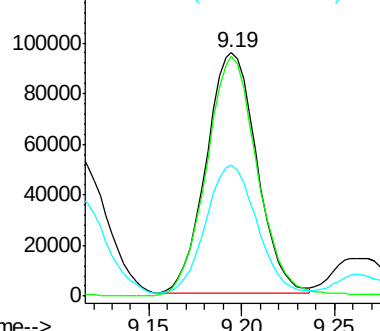
Lab File: VN057243.D

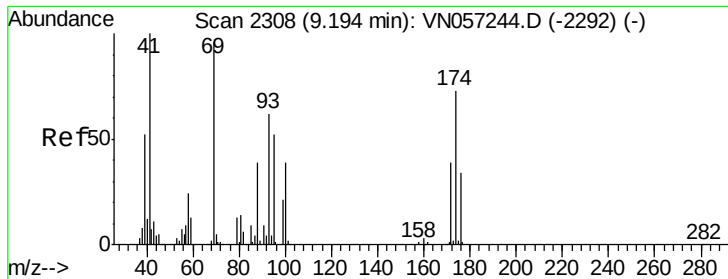
Acq: 13 Aug 2019 12:15

Tgt Ion:	41	Resp:	180596
Ion Ratio		Lower	Upper
41	100		
69	100.8	75.7	113.5
39	53.8	43.3	64.9



Abundance Ion 41.00 (40.70 to 41.70): VN057243.D (-2215) (-)





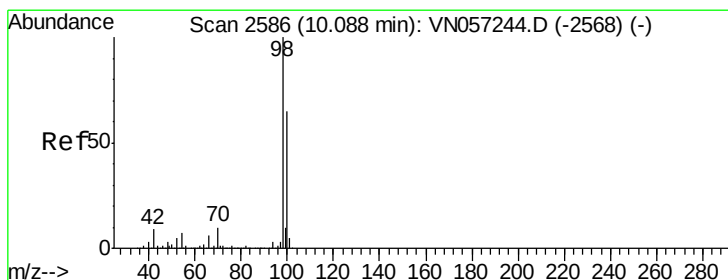
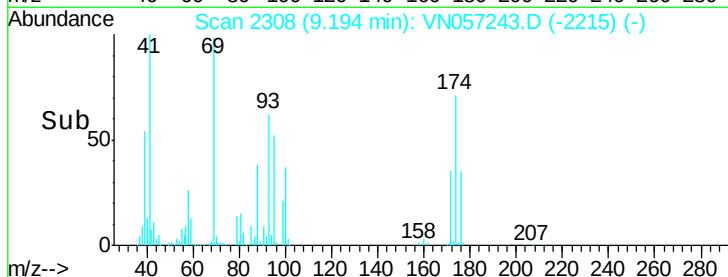
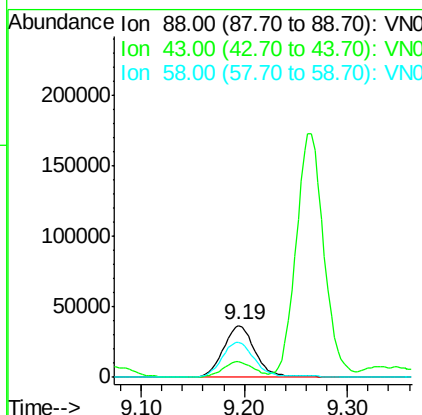
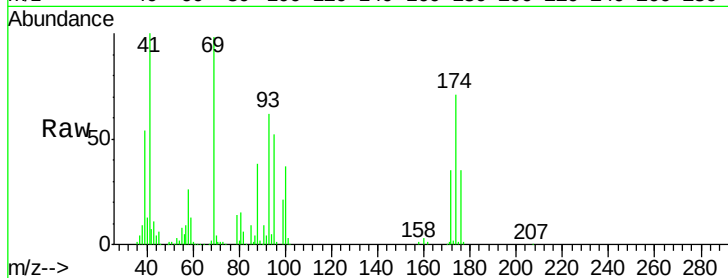
#49
1,4-Dioxane
Concen: 321.915 ug/l
RT: 9.19 min Scan# 2308
Delta R.T. 0.00 min
Lab File: VN057243.D
Acq: 13 Aug 2019 12:15

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
88	100		
43	27.5	20.7	31.1
58	68.0	52.0	78.0

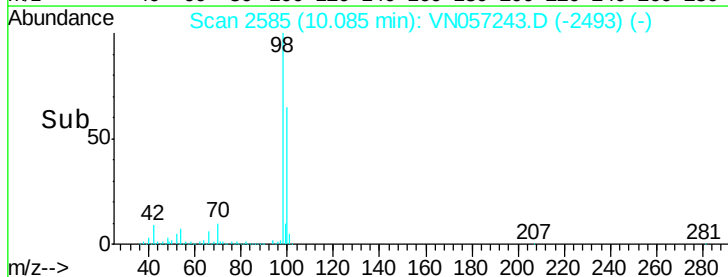
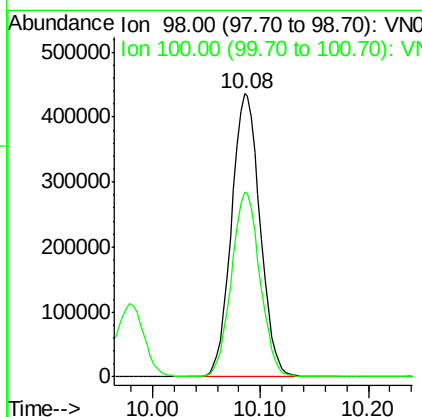
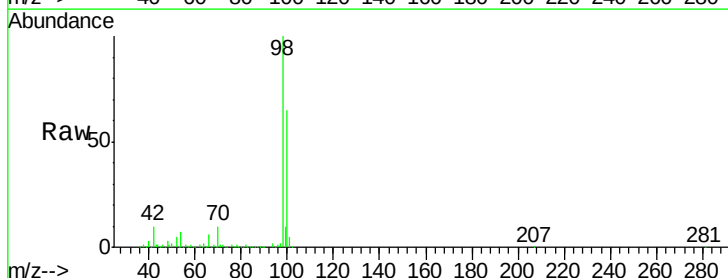
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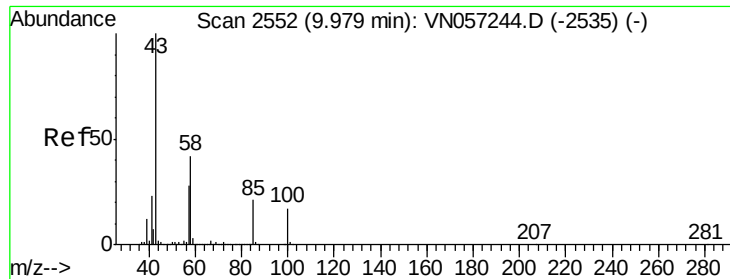
MMDadoda
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#50
Toluene-d8
Concen: 18.644 ug/l
RT: 10.08 min Scan# 2585
Delta R.T. -0.00 min
Lab File: VN057243.D
Acq: 13 Aug 2019 12:15

Tgt Ion	Ratio	Lower	Upper
98	100		
100	64.6	51.8	77.6





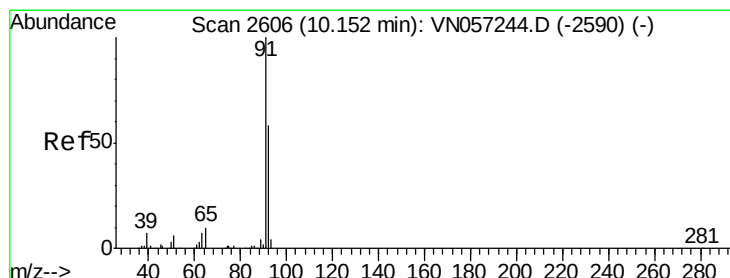
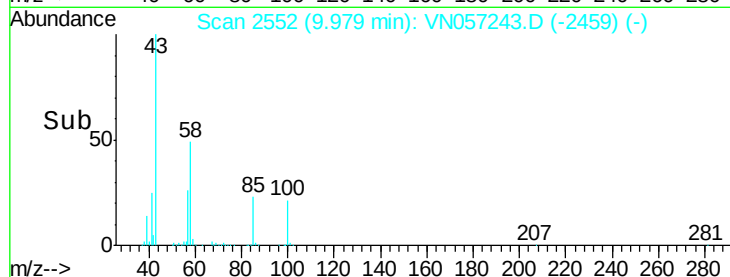
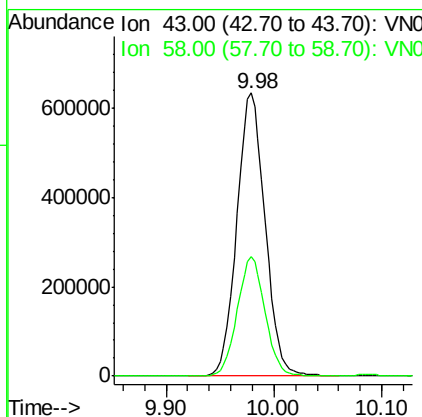
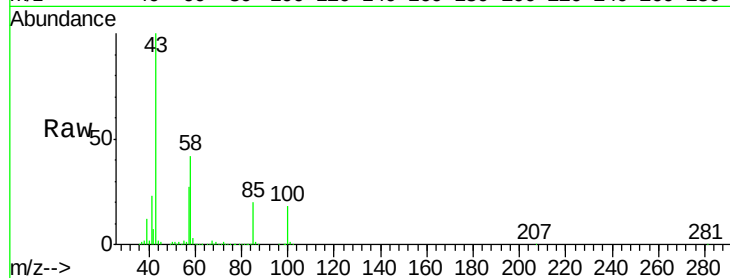
#51
4-Methyl-2-Pentanone
Concen: 73.252 ug/l
RT: 9.98 min Scan# 2552
Delta R.T. 0.00 min
Lab File: VN057243.D
Acq: 13 Aug 2019 12:15

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion: 43 Resp: 1154988
Ion Ratio Lower Upper
43 100
58 41.4 33.7 50.5

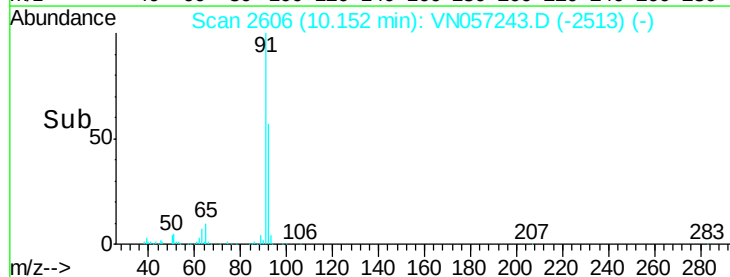
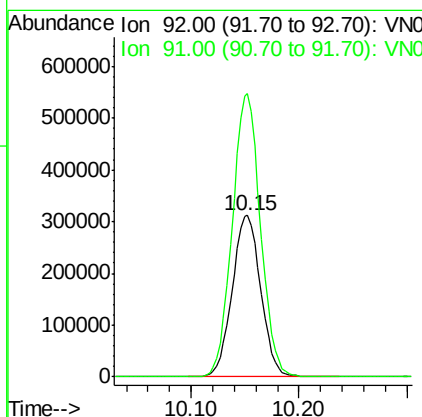
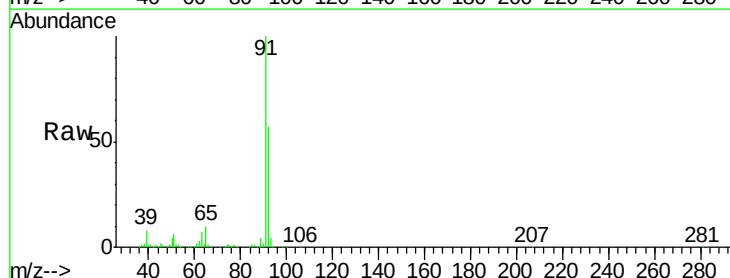
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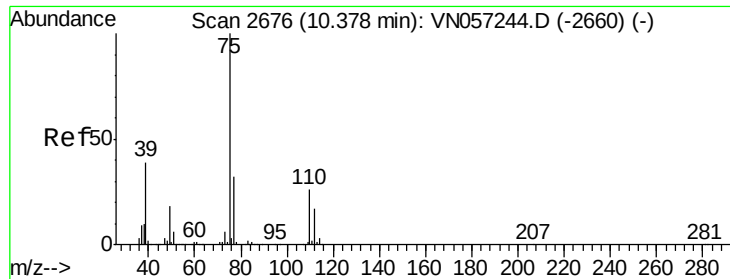
MMDadoda
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#52
Toluene
Concen: 19.234 ug/l
RT: 10.15 min Scan# 2606
Delta R.T. 0.00 min
Lab File: VN057243.D
Acq: 13 Aug 2019 12:15

Tgt Ion: 92 Resp: 574666
Ion Ratio Lower Upper
92 100
91 173.2 138.2 207.2





#53

t-1,3-Dichloropropene

Concen: 19.394 ug/l

RT: 10.38 min Scan# 2676

Delta R.T. 0.00 min

Lab File: VN057243.D

Acq: 13 Aug 2019 12:15

Instrument :

MSVOA_N

ClientSampled :

VSTDIC020

Tot Ion: 75 Resp: 320032

Ion Ratio Lower Upper

75 100

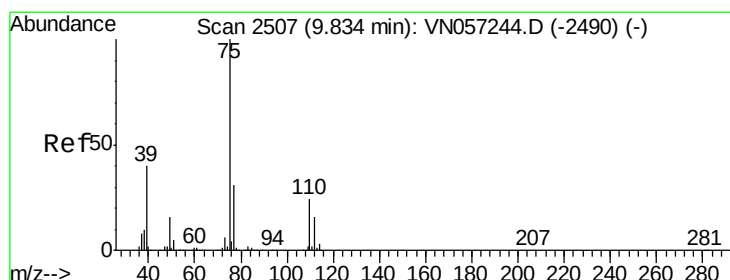
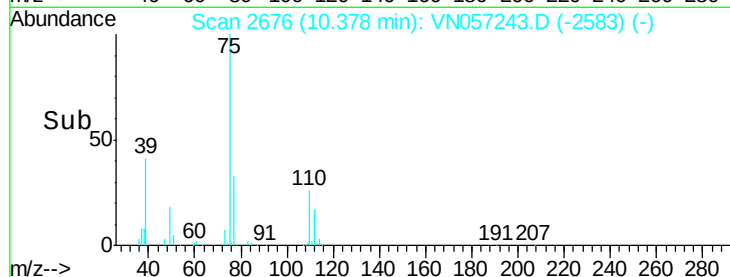
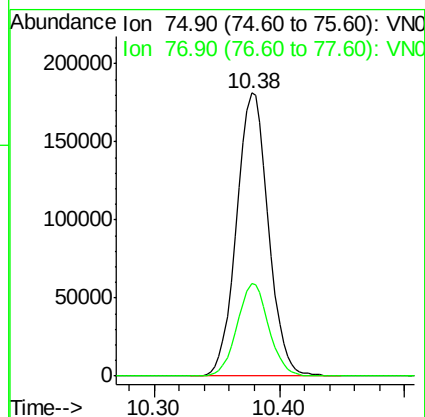
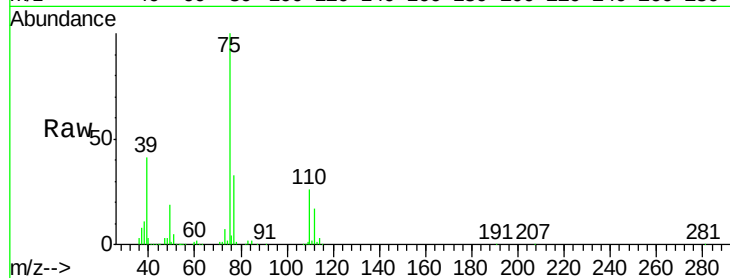
77 32.5 25.3 37.9

Manual Integrations

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#54

cis-1,3-Dichloropropene

Concen: 19.322 ug/l

RT: 9.83 min Scan# 2507

Delta R.T. 0.00 min

Lab File: VN057243.D

Acq: 13 Aug 2019 12:15

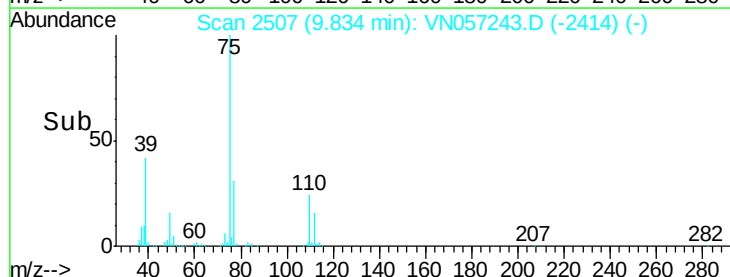
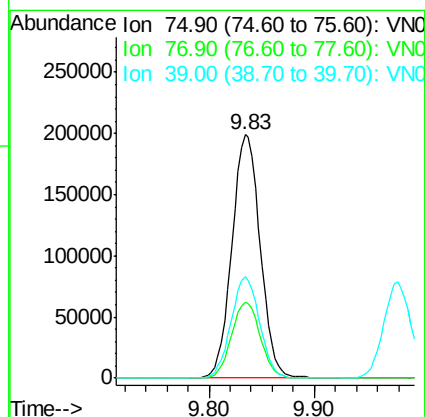
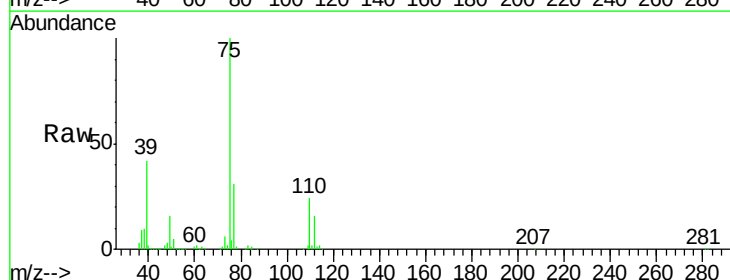
Tgt Ion: 75 Resp: 368436

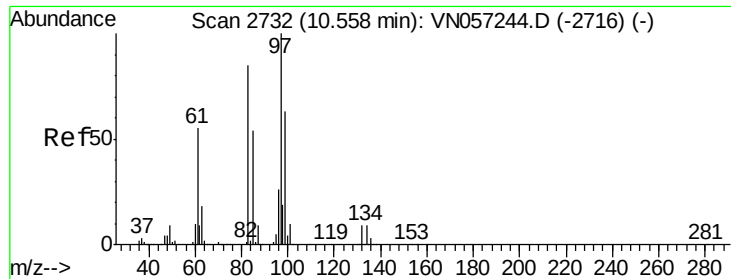
Ion Ratio Lower Upper

75 100

77 31.0 25.0 37.6

39 41.8 32.3 48.5





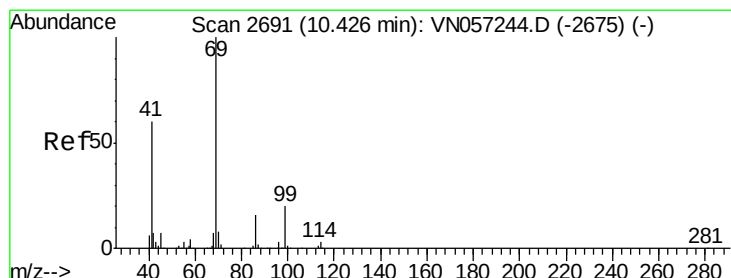
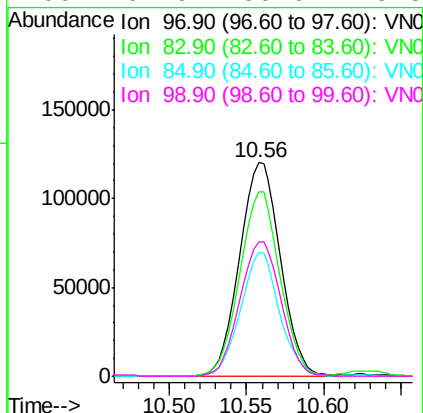
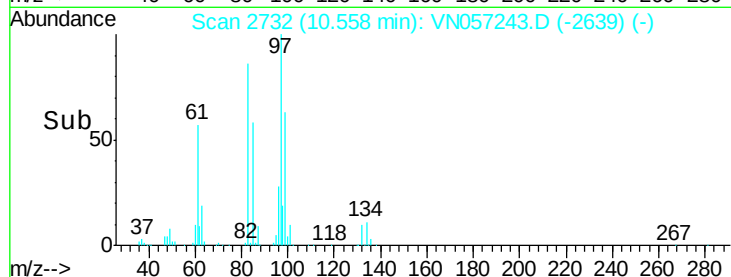
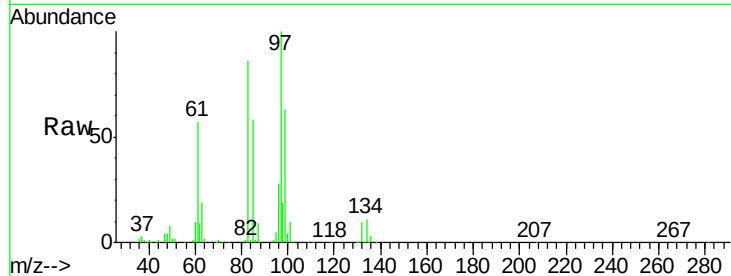
#55
 1,1,2-Trichloroethane
 Concen: 17.815 ug/l
 RT: 10.56 min Scan# 2732
 Delta R.T. 0.00 min
 Lab File: VN057243.D
 Acq: 13 Aug 2019 12:15

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
97	100		
83	86.4	68.4	102.6
85	57.9	43.0	64.6
99	62.9	50.6	75.8

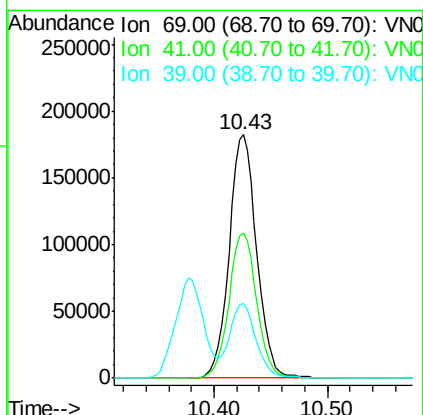
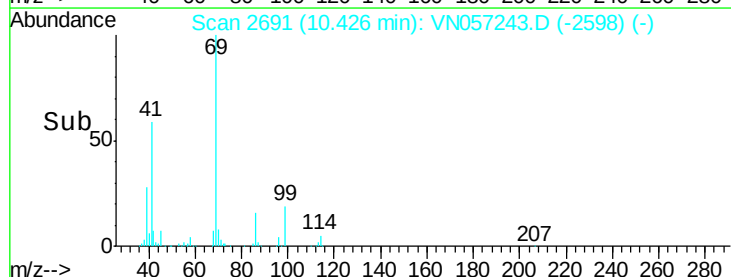
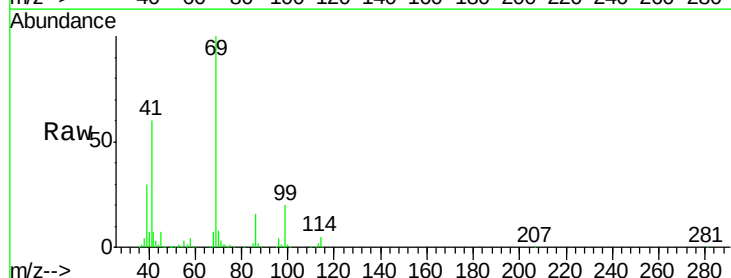
Manual Integrations
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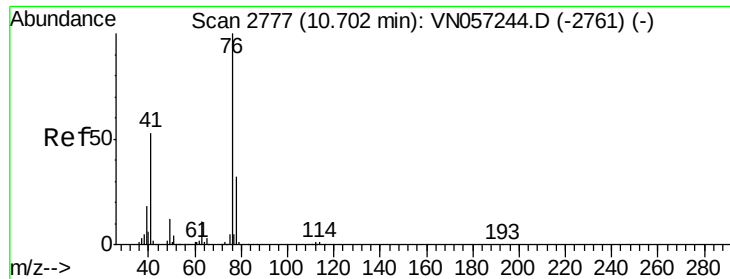
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#56
 Ethyl methacrylate
 Concen: 17.379 ug/l
 RT: 10.43 min Scan# 2691
 Delta R.T. 0.00 min
 Lab File: VN057243.D
 Acq: 13 Aug 2019 12:15

Tgt Ion	Ratio	Lower	Upper
69	100		
41	59.2	47.6	71.4
39	28.7	23.4	35.0





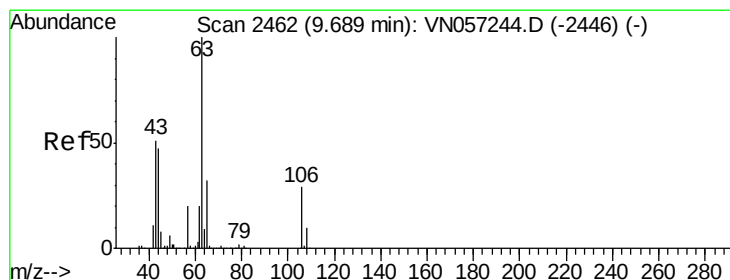
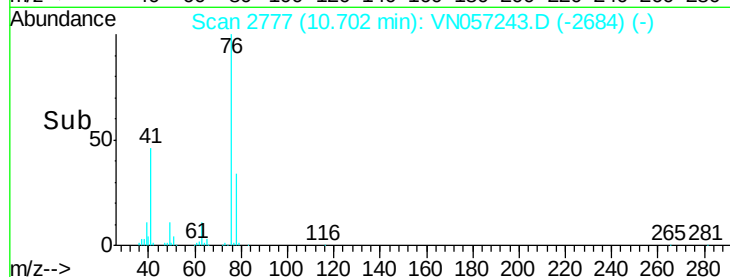
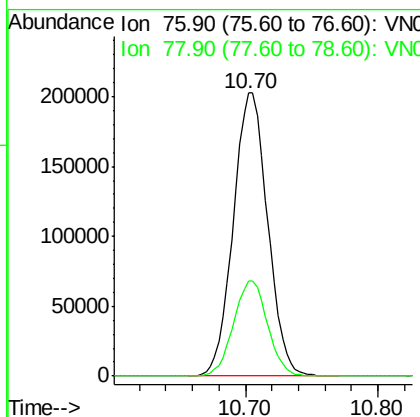
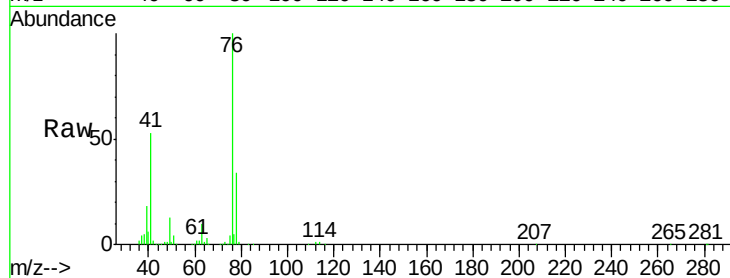
#57
 1,3-Dichloropropane
 Concen: 17.990 ug/l
 RT: 10.70 min Scan# 2777
 Delta R.T. 0.00 min
 Lab File: VN057243.D
 Acq: 13 Aug 2019 12:15

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
76	100		
78	33.4	26.0	39.0

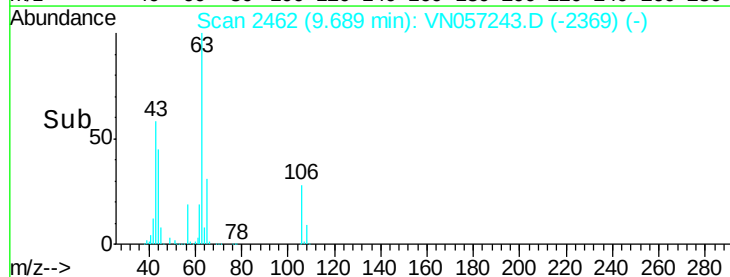
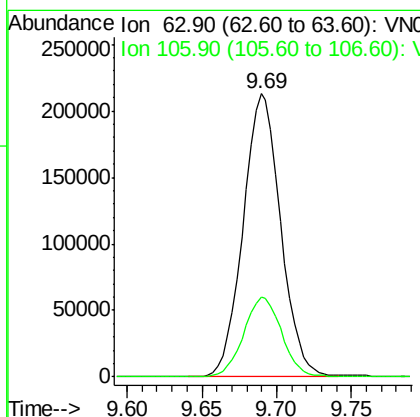
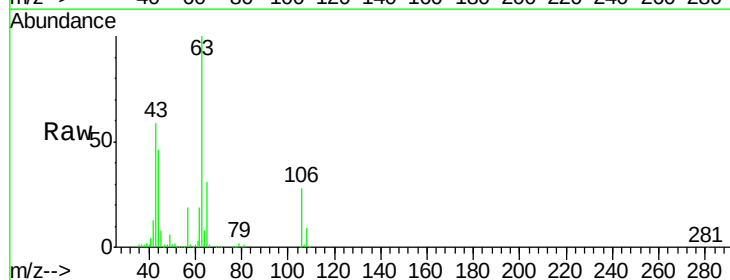
Manual Integrations
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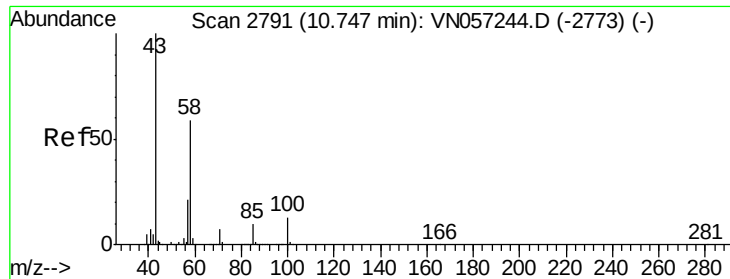
MMDadoda
 8/14/2019 12:29:46 PM



#58
 2-Chloroethyl Vinyl ether
 Concen: 47.455 ug/l
 RT: 9.69 min Scan# 2462
 Delta R.T. 0.00 min
 Lab File: VN057243.D
 Acq: 13 Aug 2019 12:15

Tgt Ion	Ratio	Lower	Upper
63	100		
106	28.6	23.4	35.2





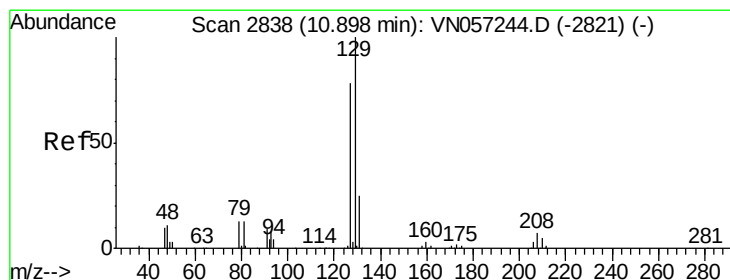
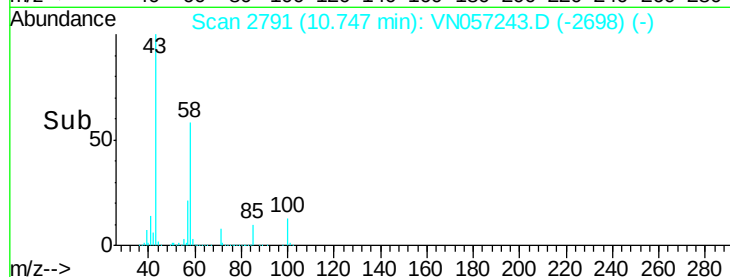
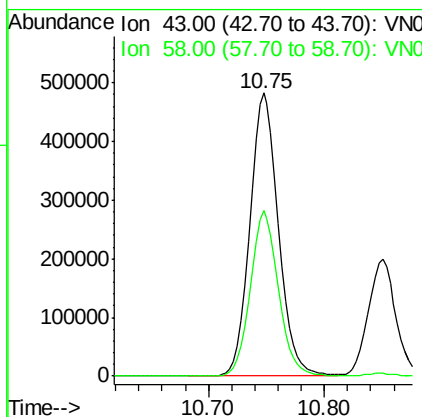
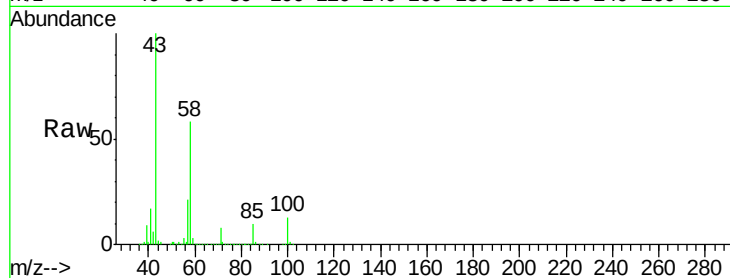
#59
2-Hexanone
Concen: 73.592 ug/l
RT: 10.75 min Scan# 2791
Delta R.T. 0.00 min
Lab File: VN057243.D
Acq: 13 Aug 2019 12:15

Instrument :
MSVOA_N
ClientSampled :
VSTDIC020

Tot Ion: 43 Resp: 828689
Ion Ratio Lower Upper
43 100
58 57.6 29.1 87.4

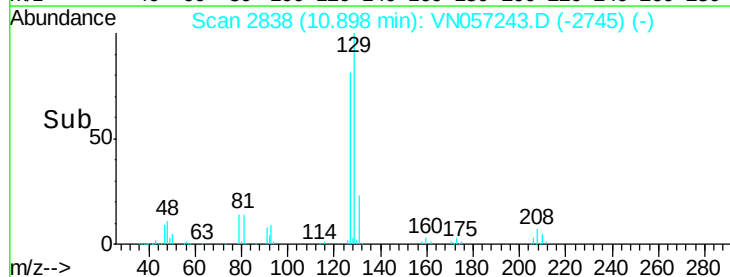
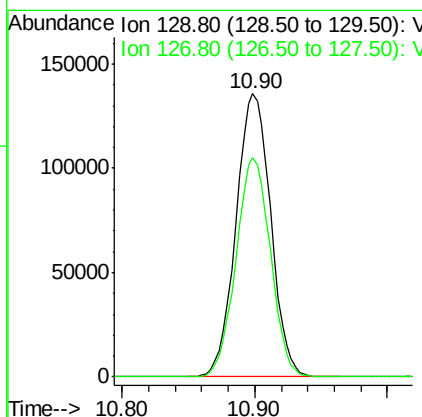
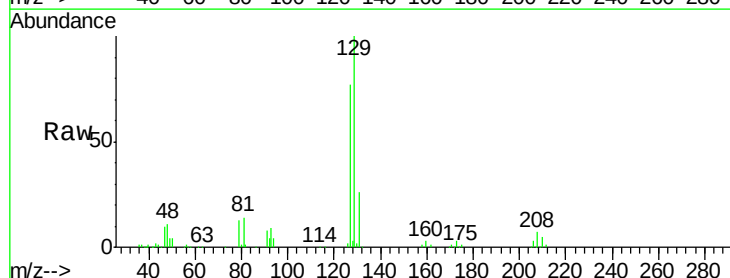
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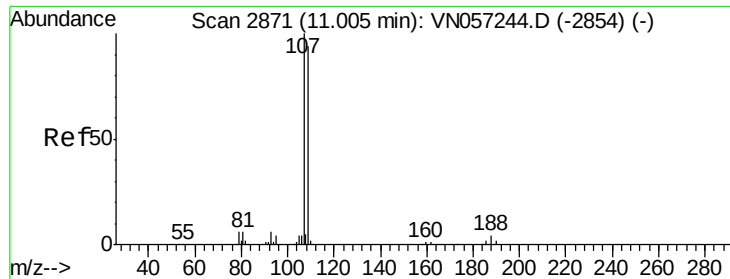
MMDadoda
8/14/2019 12:29:46 PM



#60
Dibromochloromethane
Concen: 19.905 ug/l
RT: 10.90 min Scan# 2838
Delta R.T. 0.00 min
Lab File: VN057243.D
Acq: 13 Aug 2019 12:15

Tgt Ion: 129 Resp: 246606
Ion Ratio Lower Upper
129 100
127 76.8 38.9 116.6





#61

1,2-Dibromoethane

Concen: 18.618 ug/l

RT: 11.00 min Scan# 2871

Delta R.T. 0.00 min

Lab File: VN057243.D

Acq: 13 Aug 2019 12:15

Instrument :

MSVOA_N

ClientSampled :

VSTDIC020

Tot Ion: 107 Resp: 230526

Ion Ratio Lower Upper

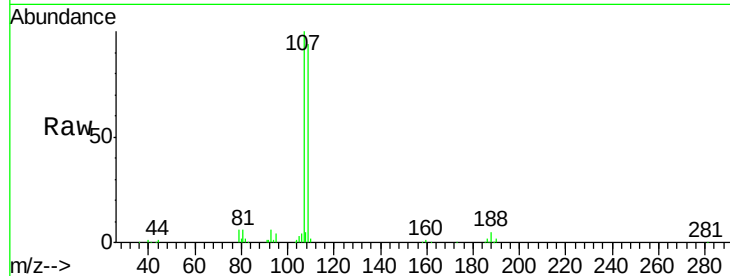
107 100

109 94.3 75.7 113.5

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Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V

11.00

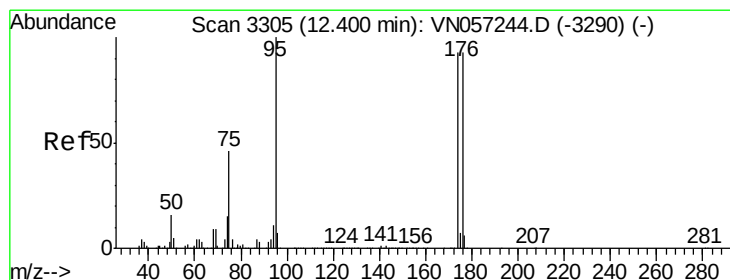
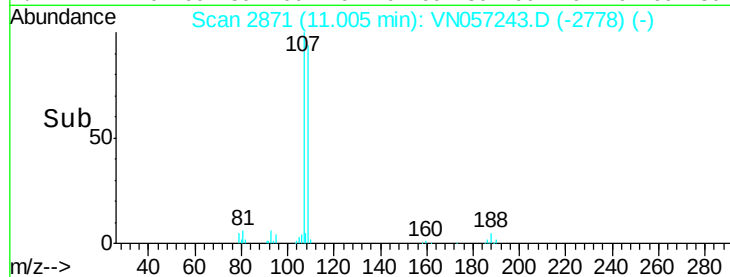
150000

100000

50000

0

Time--> 10.90 11.00 11.10



#62

4-Bromofluorobenzene

Concen: 17.096 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN057243.D

Acq: 13 Aug 2019 12:15

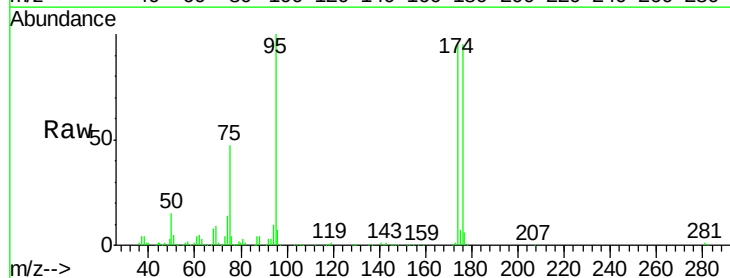
Tgt Ion: 95 Resp: 246814

Ion Ratio Lower Upper

95 100

174 96.2 0.0 187.6

176 93.9 0.0 185.8



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

200000

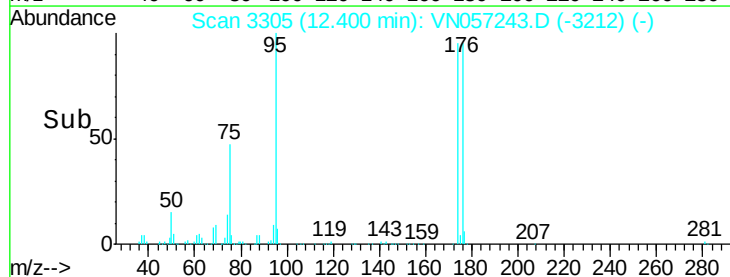
150000

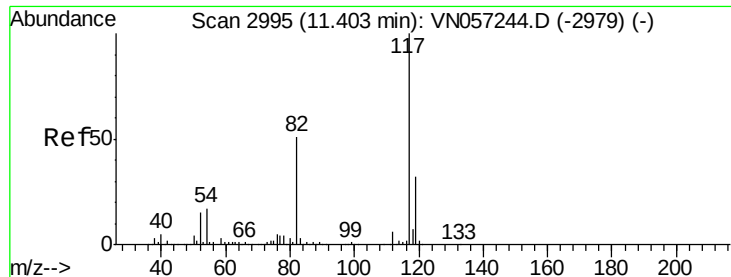
100000

50000

0

Time--> 12.35 12.40 12.45





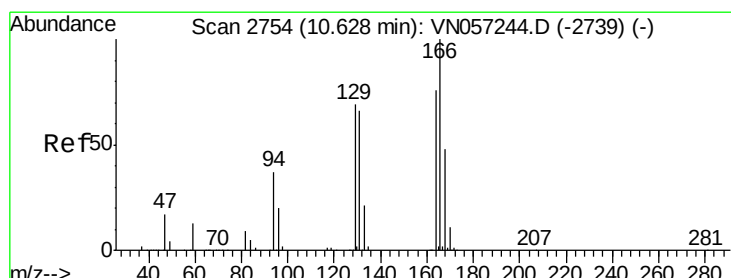
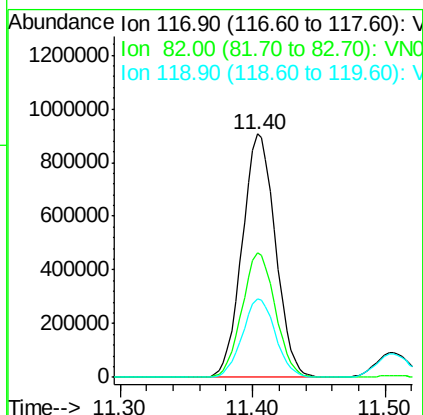
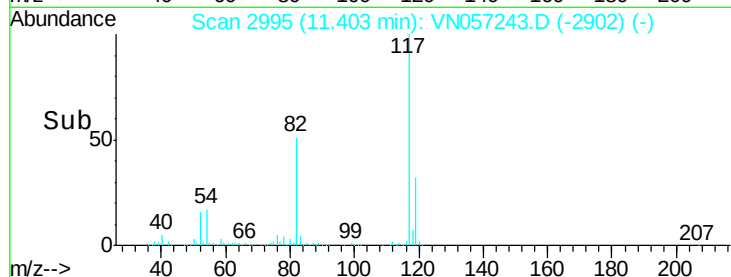
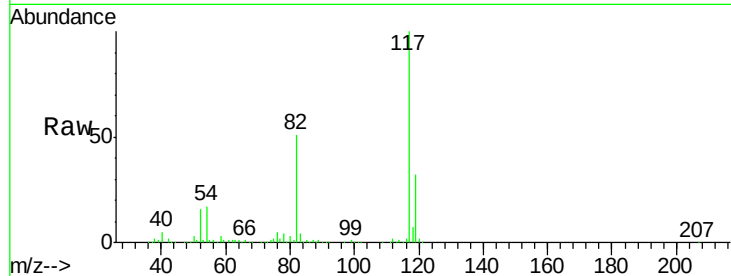
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2995
Delta R.T. 0.00 min
Lab File: VN057243.D
Acq: 13 Aug 2019 12:15

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
117	100		
82	51.0	40.9	61.3
119	32.4	25.4	38.2

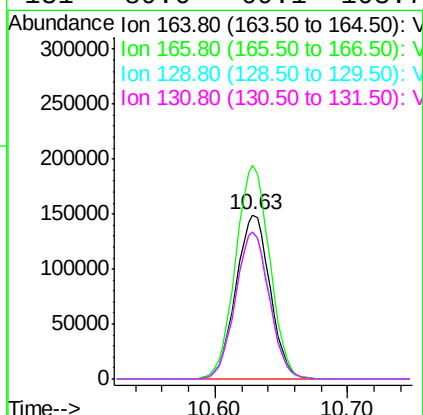
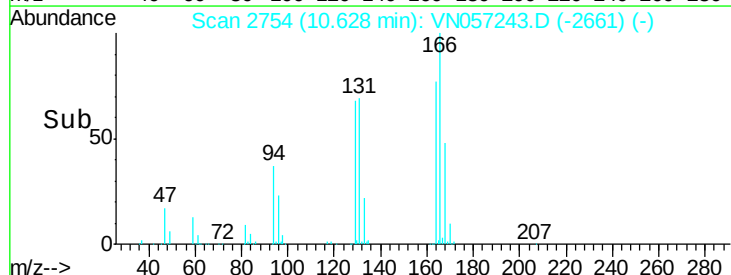
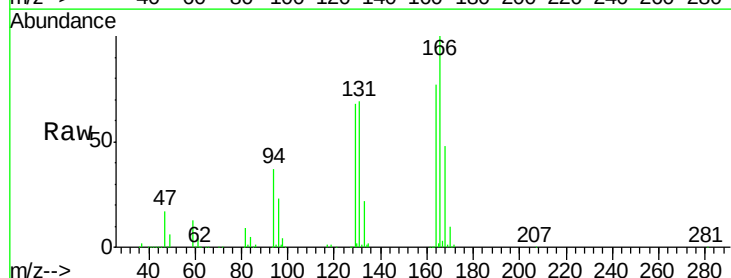
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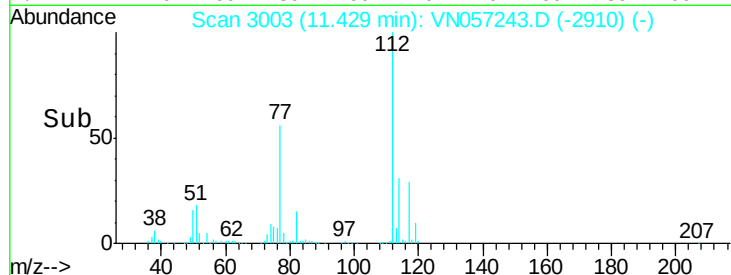
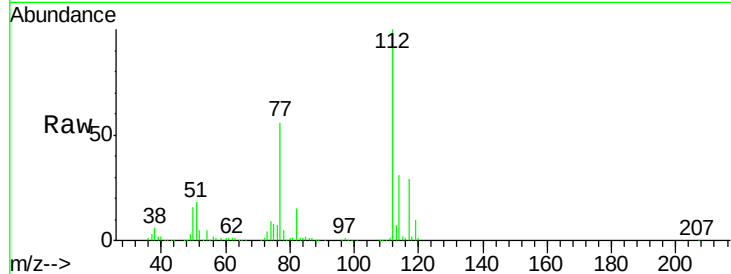
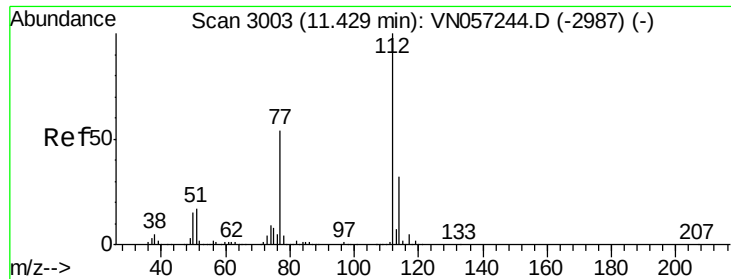
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#64
Tetrachloroethene
Concen: 19.572 ug/l
RT: 10.63 min Scan# 2754
Delta R.T. 0.00 min
Lab File: VN057243.D
Acq: 13 Aug 2019 12:15

Tgt Ion	Ratio	Lower	Upper
164	100		
166	130.1	104.9	157.3
129	89.1	71.9	107.9
131	89.6	69.1	103.7





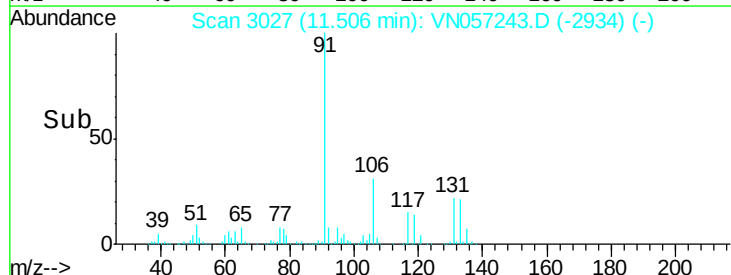
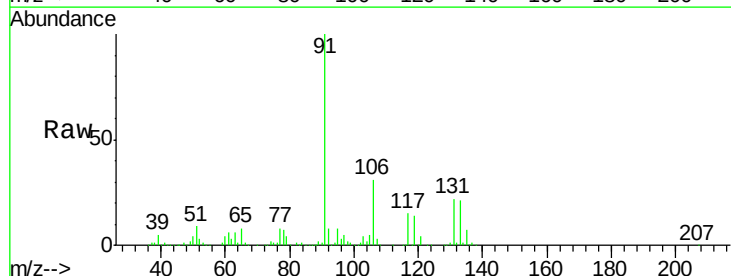
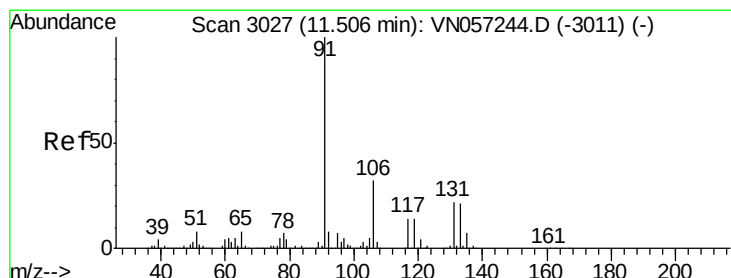
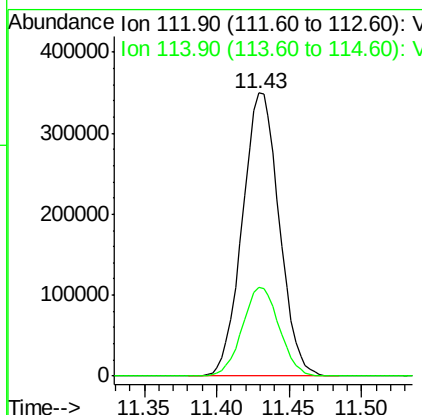
#65
Chlorobenzene
Concen: 19.167 ug/l
RT: 11.43 min Scan# 3003
Delta R.T. 0.00 min
Lab File: VN057243.D
Acq: 13 Aug 2019 12:15

Tot Ion	Ratio	Resp	Lower	Upper
112	100	618695		
114	31.4	25.4	38.2	

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

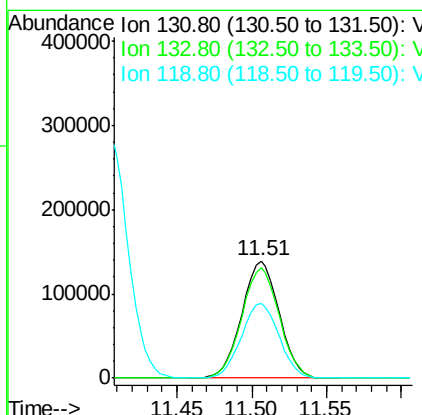
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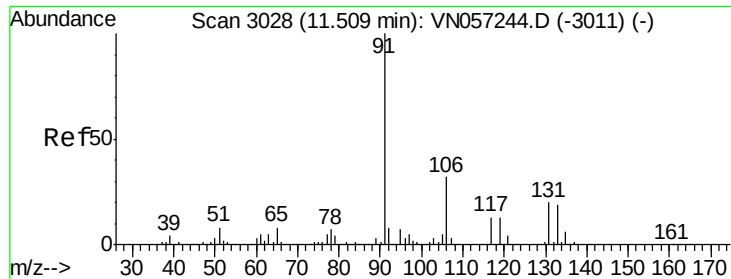
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#66
1,1,1,2-Tetrachloroethane
Concen: 20.107 ug/l
RT: 11.51 min Scan# 3027
Delta R.T. 0.00 min
Lab File: VN057243.D
Acq: 13 Aug 2019 12:15

Tgt Ion	Ratio	Resp	Lower	Upper
131	100	240609		
133	95.3	46.9	140.7	
119	64.8	32.3	96.8	





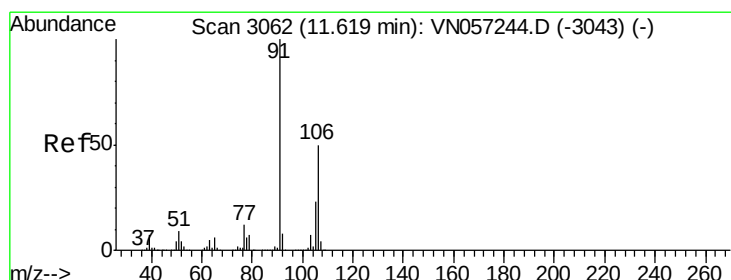
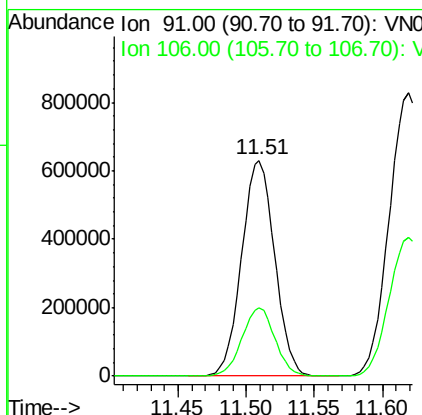
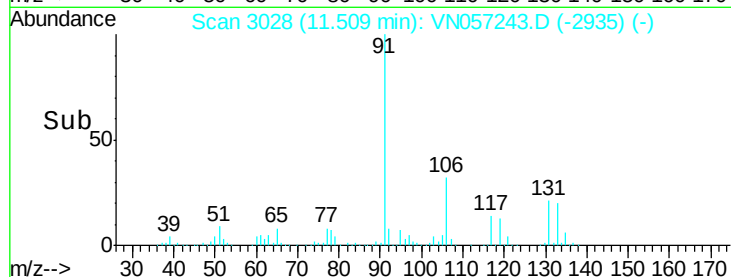
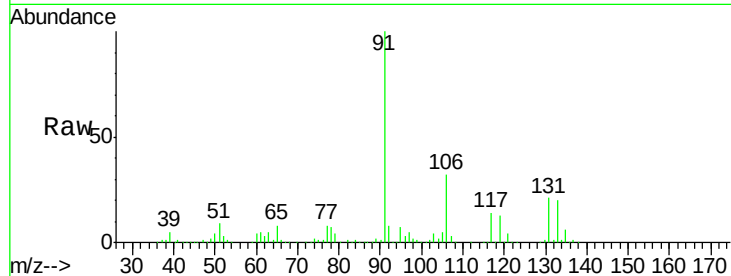
#67
Ethyl Benzene
Concen: 18.815 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. 0.00 min
Lab File: VN057243.D
Acq: 13 Aug 2019 12:15

Instrument :
MSVOA_N
ClientSampled :
VSTDIC020

Tot Ion: 91 Resp: 1062401
Ion Ratio Lower Upper
91 100
106 31.6 25.4 38.0

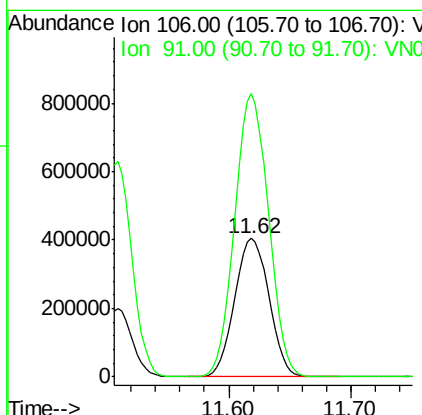
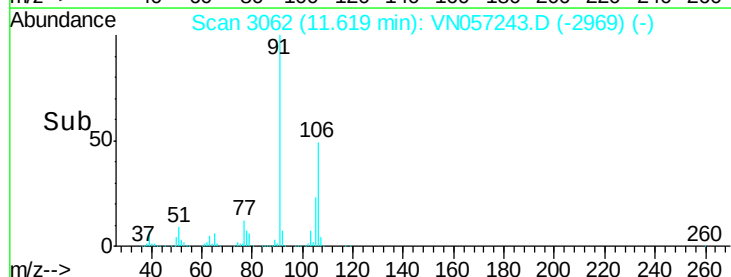
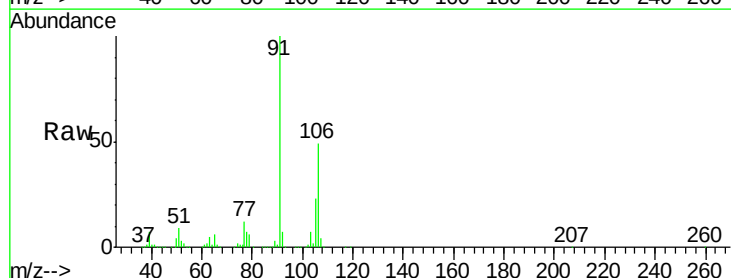
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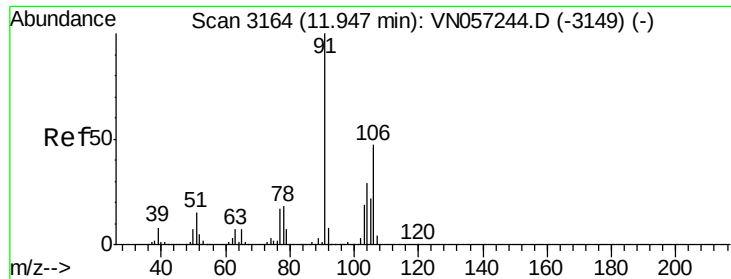
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#68
m/p-Xylenes
Concen: 37.470 ug/l
RT: 11.62 min Scan# 3062
Delta R.T. 0.00 min
Lab File: VN057243.D
Acq: 13 Aug 2019 12:15

Tgt Ion: 106 Resp: 790126
Ion Ratio Lower Upper
106 100
91 200.9 161.4 242.0





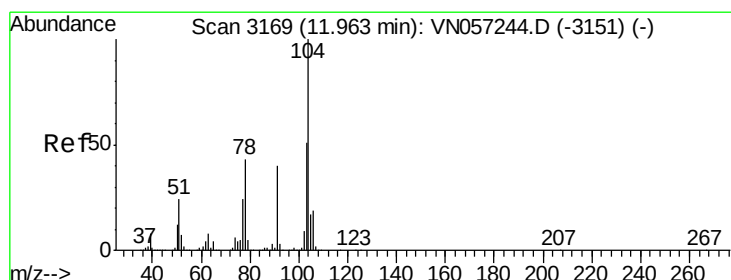
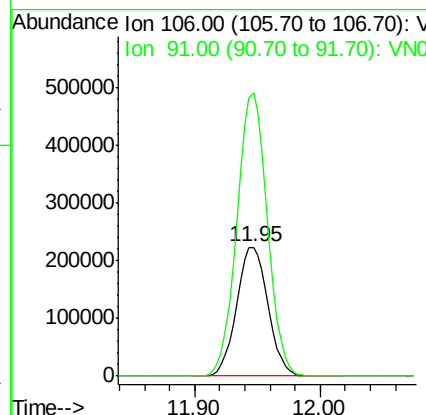
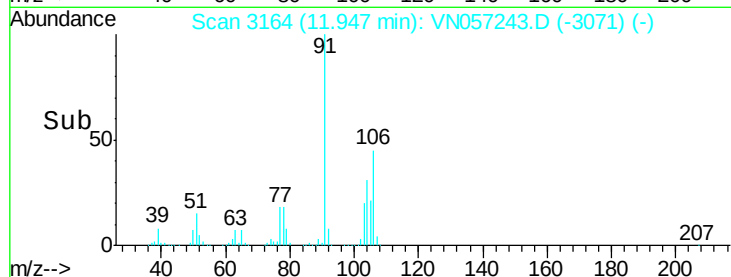
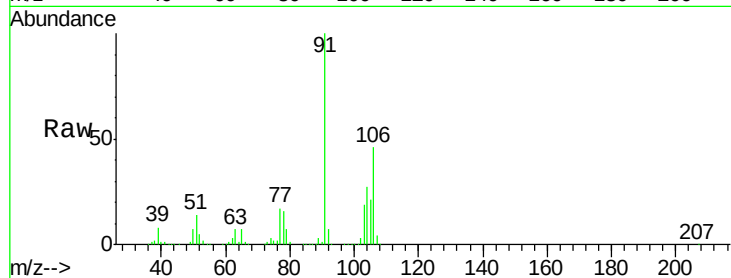
#69
o-Xylene
Concen: 18.705 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. 0.00 min
Lab File: VN057243.D
Acq: 13 Aug 2019 12:15

Instrument :
MSVOA_N
ClientSampled :
VSTDIC020

Tot Ion	Ion	Ratio	Resp	Lower	Upper
106	100		387656		
91	213.6	106.5	319.4		

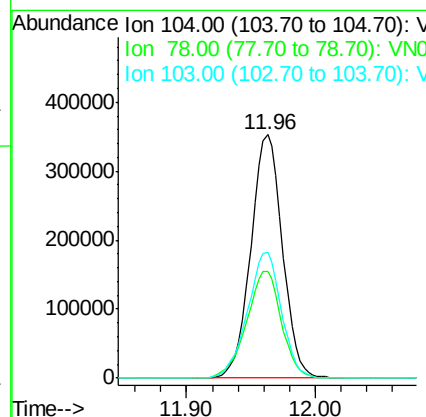
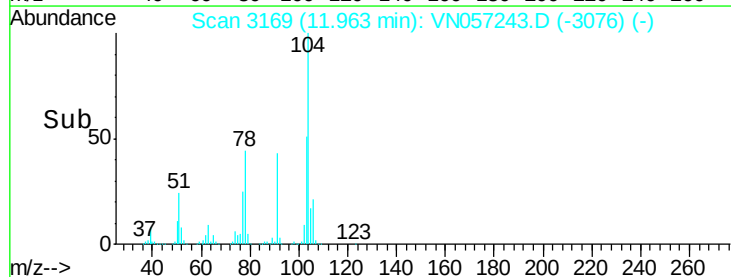
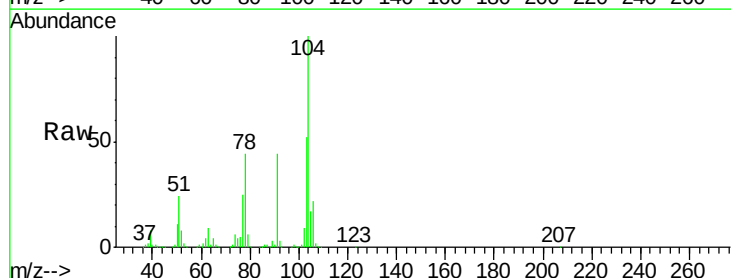
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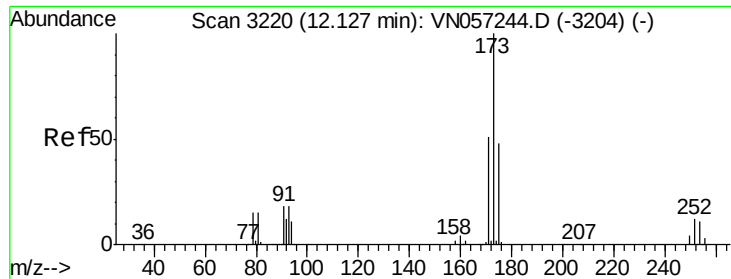
MMDadoda
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#70
Styrene
Concen: 18.049 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN057243.D
Acq: 13 Aug 2019 12:15

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
104	100		602712		
78	48.4	38.6	57.8		
103	55.6	43.9	65.9		





#71

Bromoform

Concen: 19.431 ug/l

RT: 12.13 min Scan# 3220

Delta R.T. 0.00 min

Lab File: VN057243.D

Acq: 13 Aug 2019 12:15

Instrument :

MSVOA_N

ClientSampled :

VSTDIC020

Tot Ion:173 Resp: 176692

Ion Ratio Lower Upper

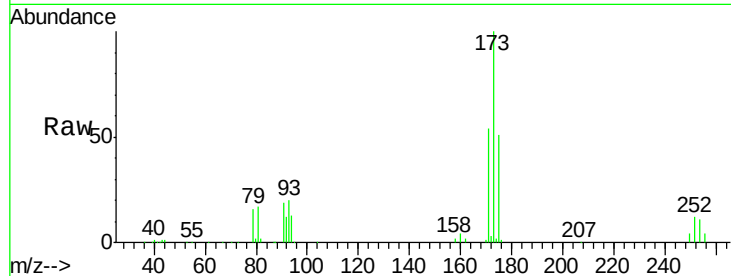
173 100

175 50.3 24.4 73.2

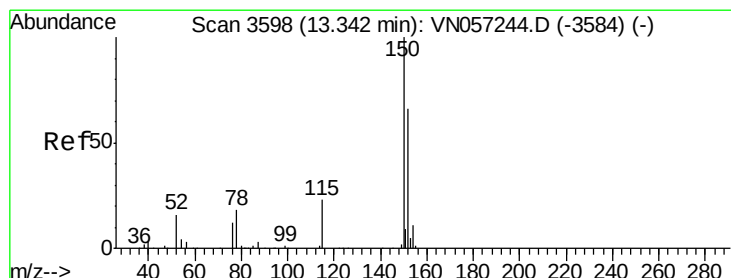
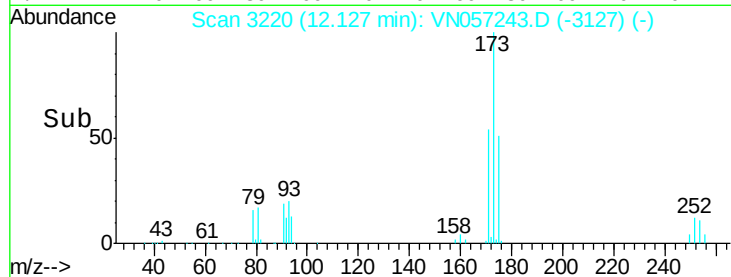
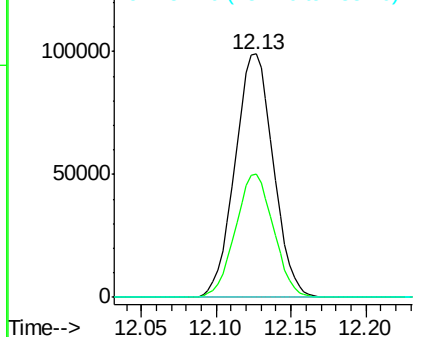
254 0.1 0.2 0.2#

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



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN057243.D

Acq: 13 Aug 2019 12:15

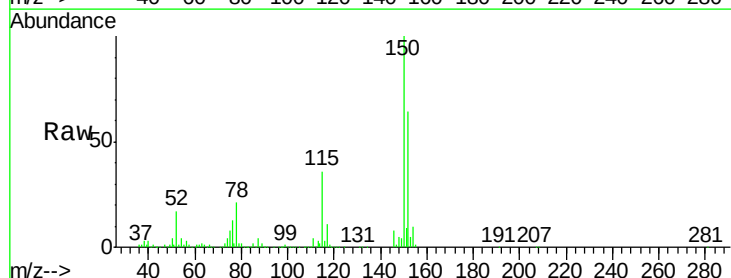
Tgt Ion:152 Resp: 572141

Ion Ratio Lower Upper

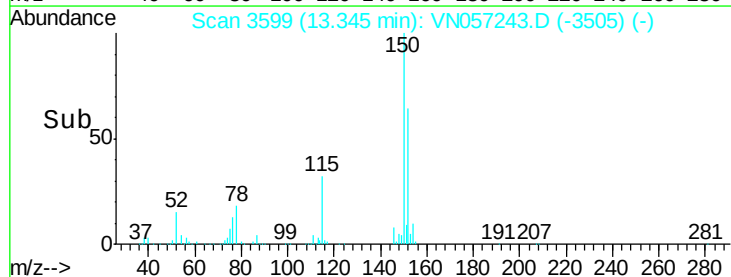
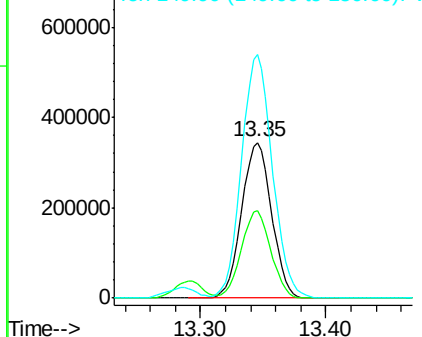
152 100

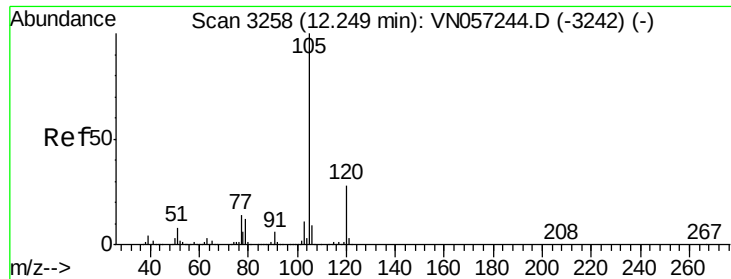
115 54.9 27.6 82.8

150 161.4 0.0 348.4



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





#73

Isopropylbenzene

Concen: 22.049 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN057243.D

Acq: 13 Aug 2019 12:15

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion:105 Resp: 1036071

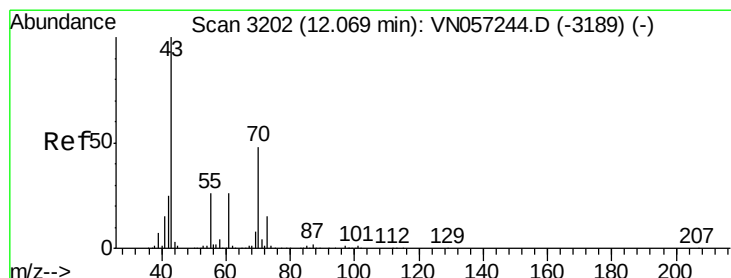
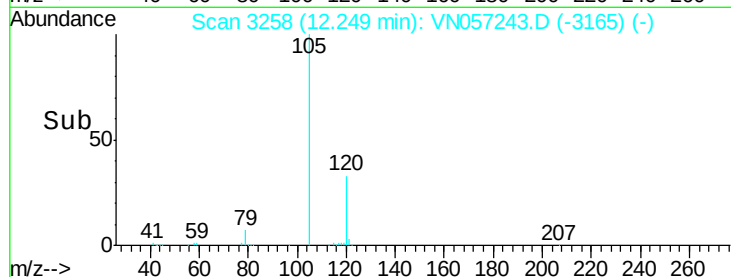
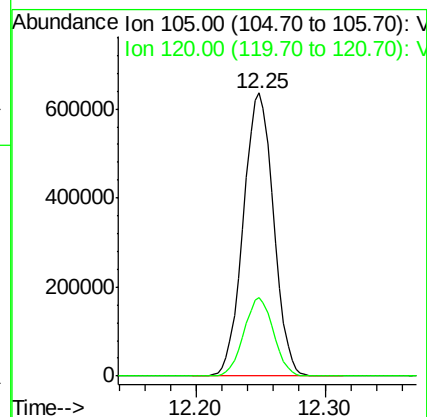
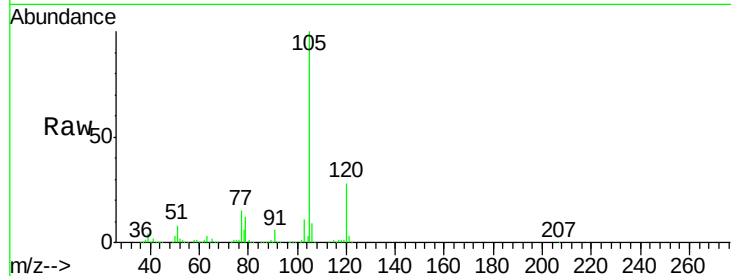
Ion Ratio Lower Upper

105 100

120 27.2 13.8 41.3

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#74

N-ethyl acetate

Concen: 16.507 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. 0.00 min

Lab File: VN057243.D

Acq: 13 Aug 2019 12:15

Tgt Ion: 43 Resp: 276026

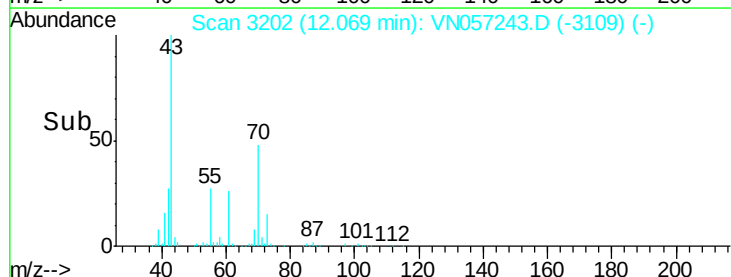
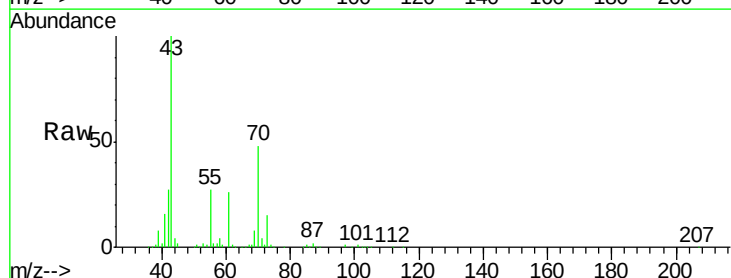
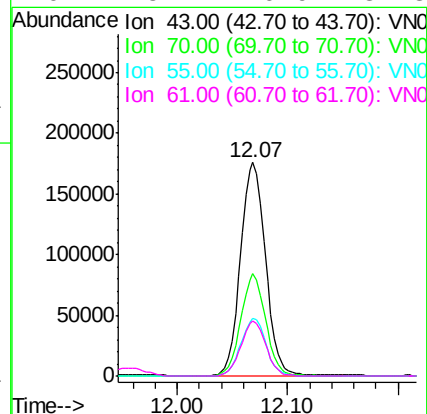
Ion Ratio Lower Upper

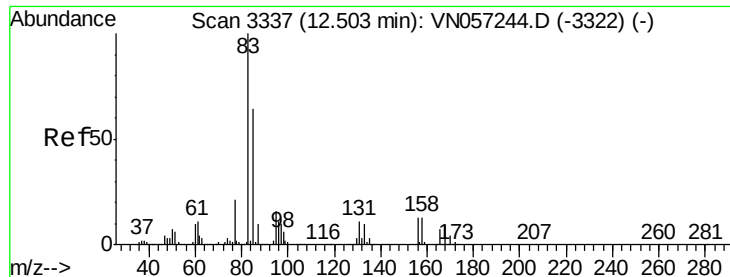
43 100

70 47.6 37.4 56.2

55 27.1 21.0 31.4

61 25.7 20.9 31.3





#75

1,1,2,2-Tetrachloroethane

Concen: 18.774 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. 0.00 min

Lab File: VN057243.D

Acq: 13 Aug 2019 12:15

Instrument :

MSVOA_N

ClientSampled :

VSTDIC020

Tot Ion: 83 Resp: 290135
Ion Ratio Lower Upper

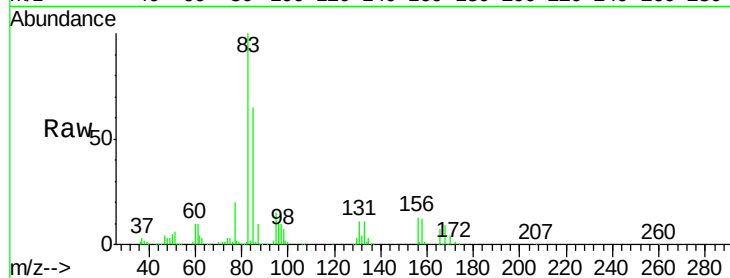
83 100

131 11.1 5.6 16.8

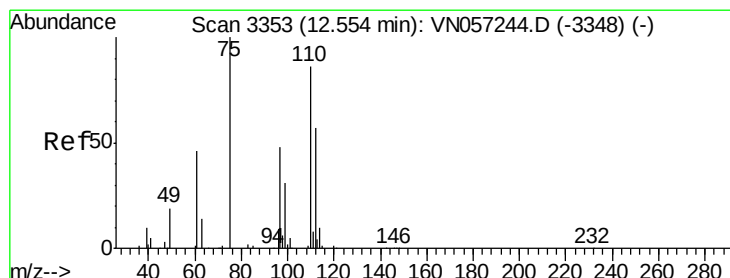
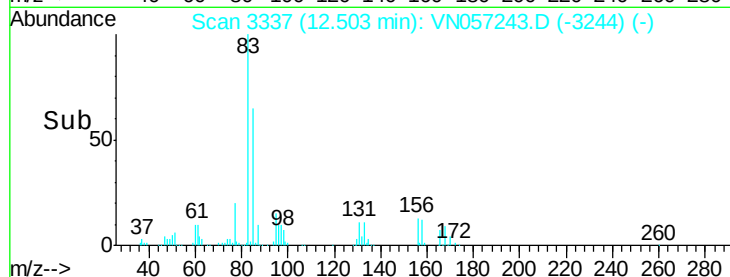
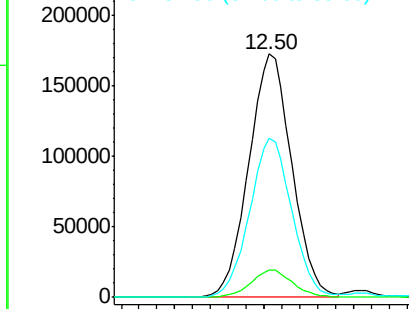
85 64.2 32.3 96.8

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



#76

1,2,3-Trichloropropane

Concen: 19.441 ug/l m

RT: 12.55 min Scan# 3353

Delta R.T. -0.00 min

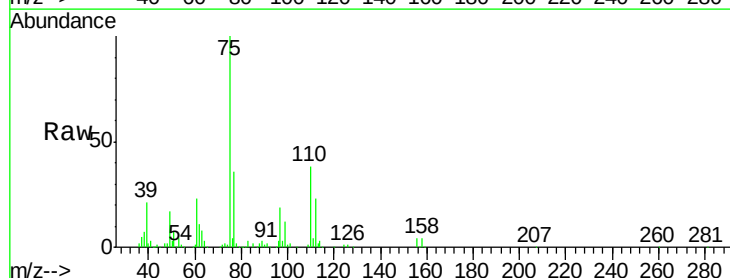
Lab File: VN057243.D

Acq: 13 Aug 2019 12:15

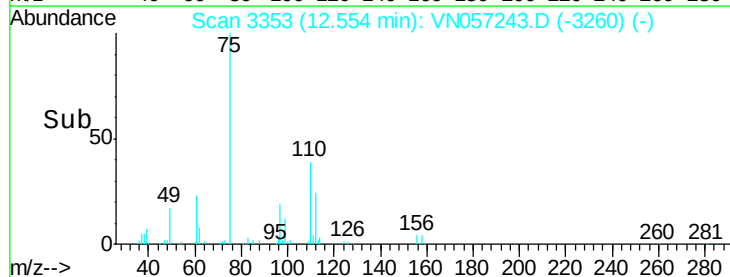
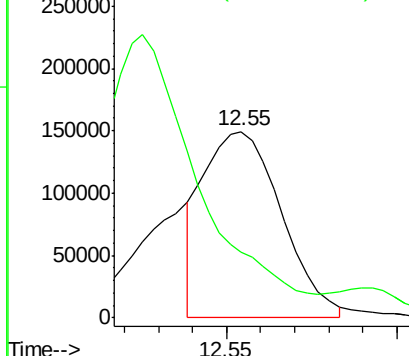
Tgt Ion: 75 Resp: 239488
Ion Ratio Lower Upper

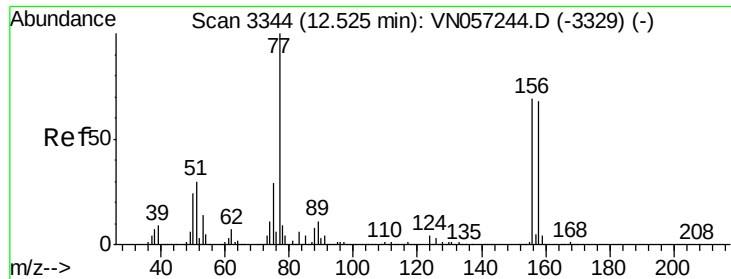
75 100

77 0.0 0.0 0.0



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





#77

Bromobenzene

Concen: 21.903 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VN057243.D

Acq: 13 Aug 2019 12:15

Instrument :

MSVOA_N

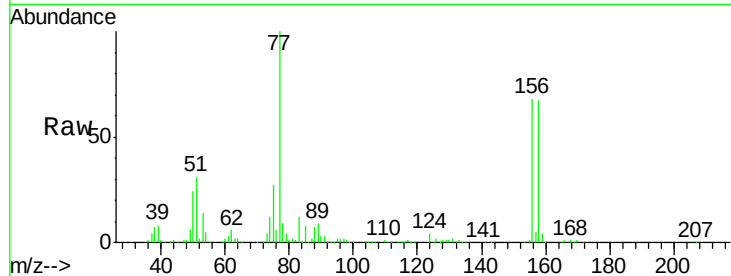
ClientSampleId :

VSTDIC020

Tot Ion:	156	Resp:	269661
Ion Ratio	Lower	Upper	
156	100		
77	173.6	88.0	264.1
158	96.1	49.4	148.0

Manual Integrations
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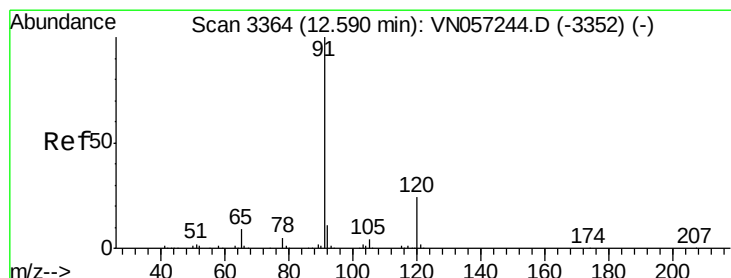
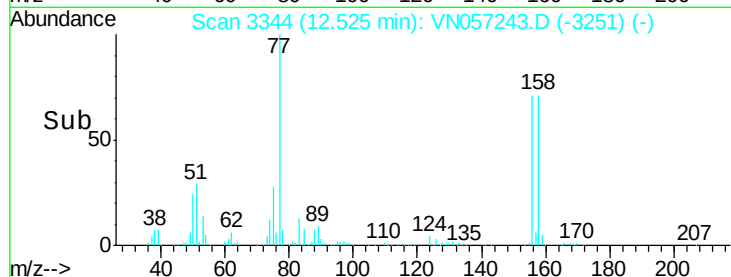
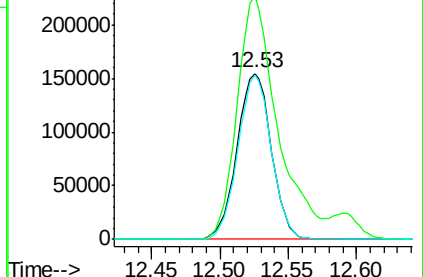
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Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 19.858 ug/l

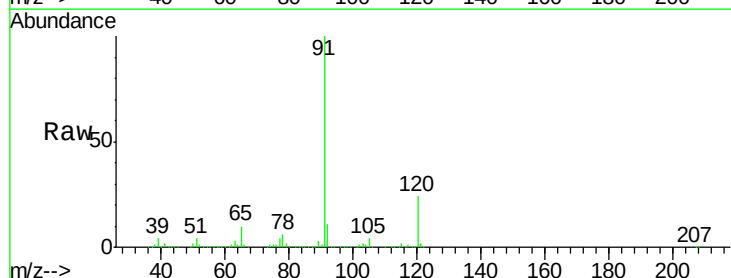
RT: 12.59 min Scan# 3364

Delta R.T. 0.00 min

Lab File: VN057243.D

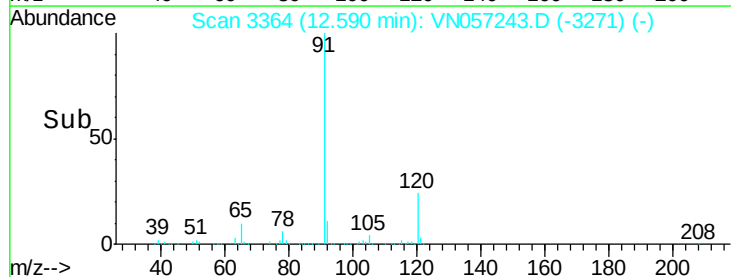
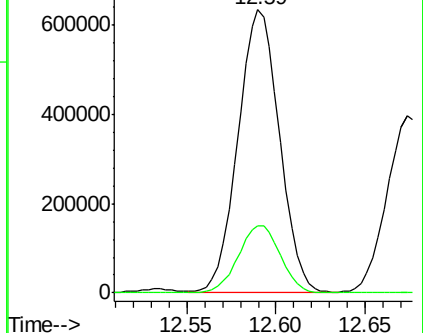
Acq: 13 Aug 2019 12:15

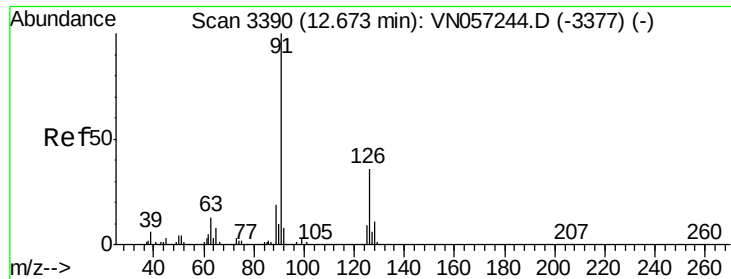
Tgt Ion:	91	Resp:	1024857
Ion Ratio	Lower	Upper	
91	100		
120	24.1	12.1	36.3



Abundance Ion 91.00 (90.70 to 91.70): VN

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 20.494 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VN057243.D

Acq: 13 Aug 2019 12:15

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion: 91 Resp: 657768

Ion Ratio Lower Upper

91 100

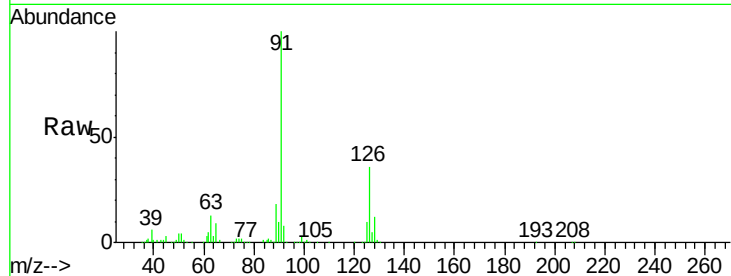
126 36.5 18.0 54.0

Manual Integrations

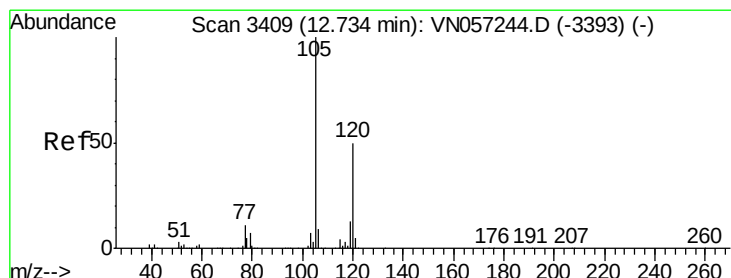
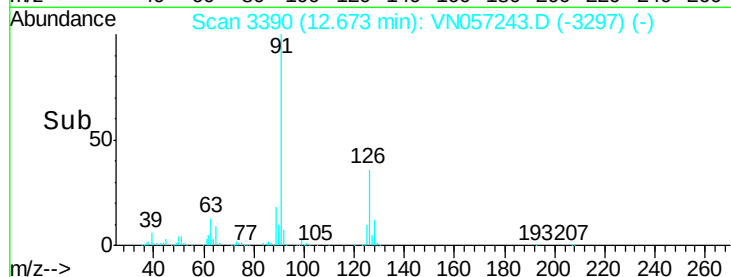
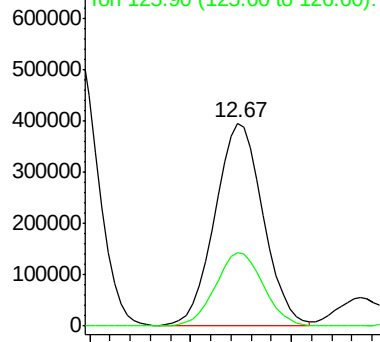
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Abundance Ion 91.00 (90.70 to 91.70): VN057244.D (-3377) (-)



#80

1,3,5-Trimethylbenzene

Concen: 21.457 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN057243.D

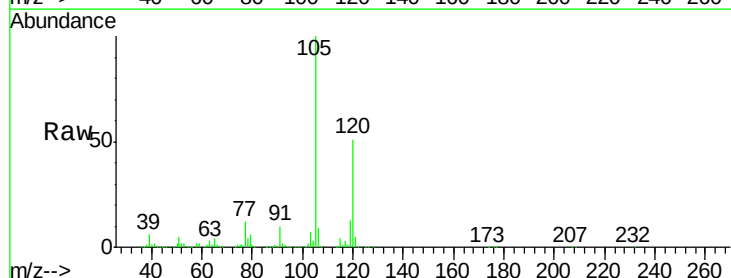
Acq: 13 Aug 2019 12:15

Tgt Ion: 105 Resp: 851732

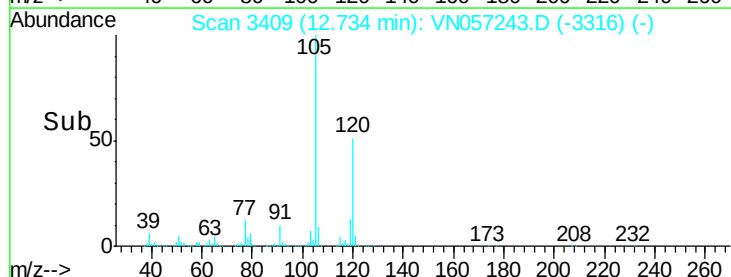
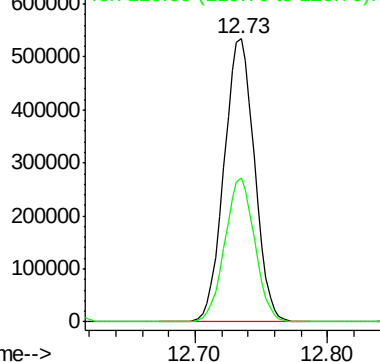
Ion Ratio Lower Upper

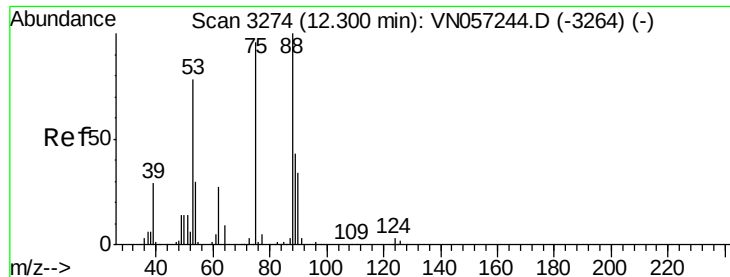
105 100

120 50.3 25.3 75.8



Abundance Ion 105.00 (104.70 to 105.70): VN057244.D (-3393) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 20.128 ug/l

RT: 12.30 min Scan# 3274

Delta R.T. 0.00 min

Lab File: VN057243.D

Acq: 13 Aug 2019 12:15

Instrument :

MSVOA_N

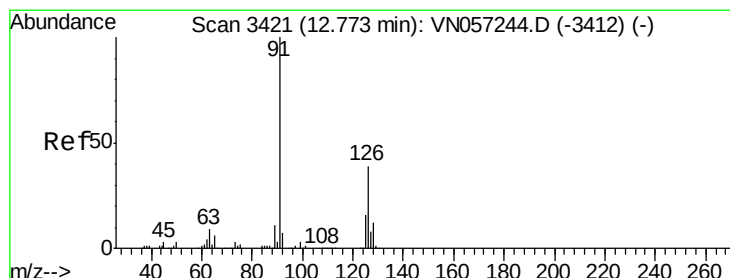
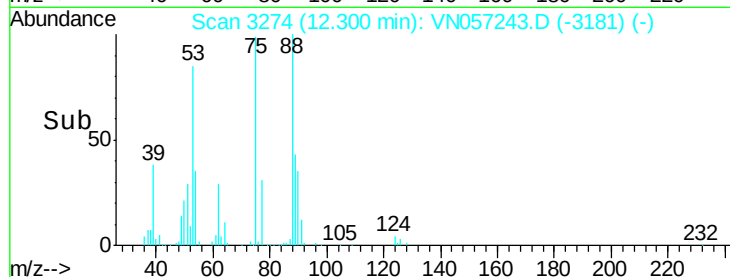
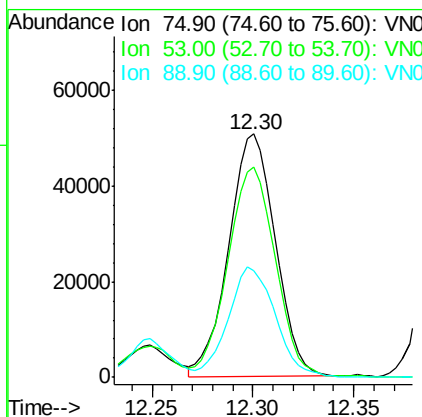
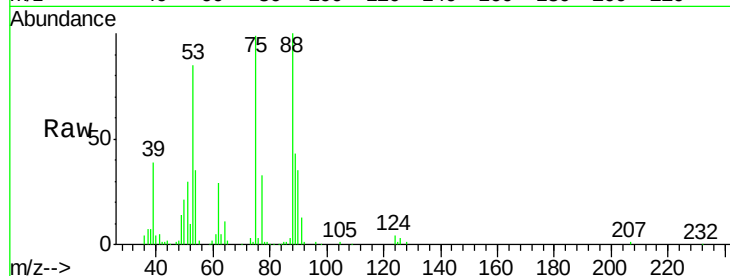
ClientSampleId :

VSTDIC020

Tot Ion:	75	Resp:	82152
Ion Ratio	Lower	Upper	
75	100		
53	87.8	65.8	98.6
89	46.0	36.7	55.1

Manual Integrations
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#82

4-Chlorotoluene

Concen: 19.629 ug/l

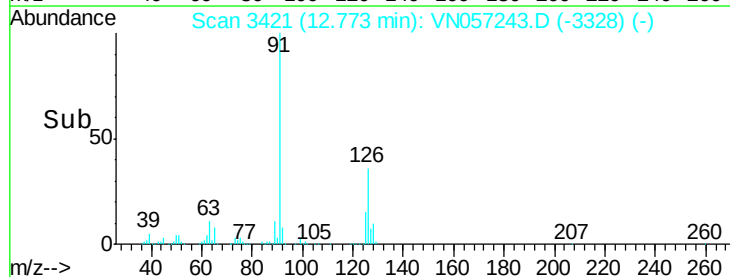
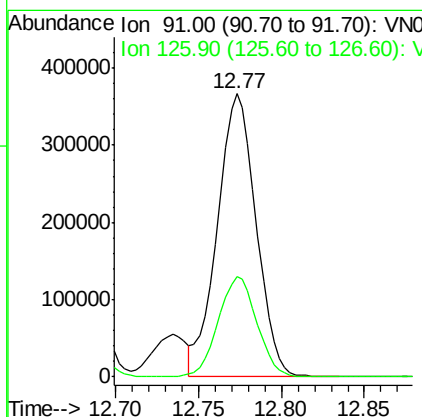
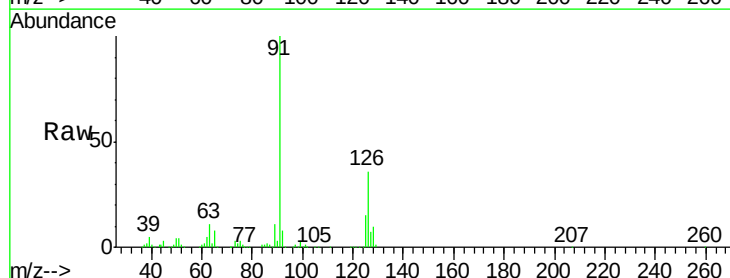
RT: 12.77 min Scan# 3421

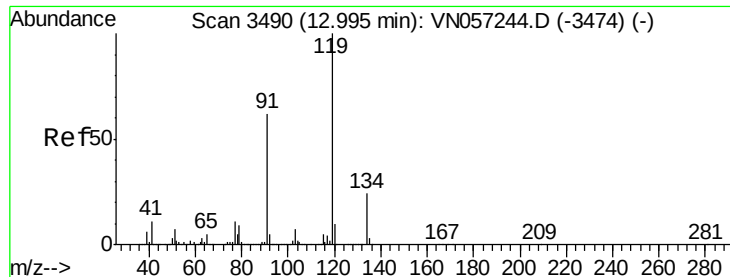
Delta R.T. 0.00 min

Lab File: VN057243.D

Acq: 13 Aug 2019 12:15

Tgt Ion:	91	Resp:	593276
Ion Ratio	Lower	Upper	
91	100		
126	35.6	17.9	53.7





#83

tert-Butylbenzene

Concen: 22.045 ug/l

RT: 12.99 min Scan# 3490

Delta R.T. 0.00 min

Lab File: VN057243.D

Acq: 13 Aug 2019 12:15

Instrument :

MSVOA_N

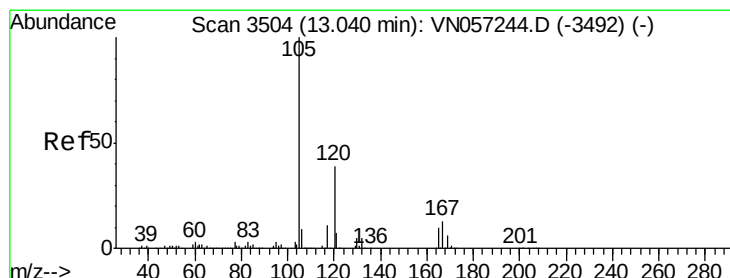
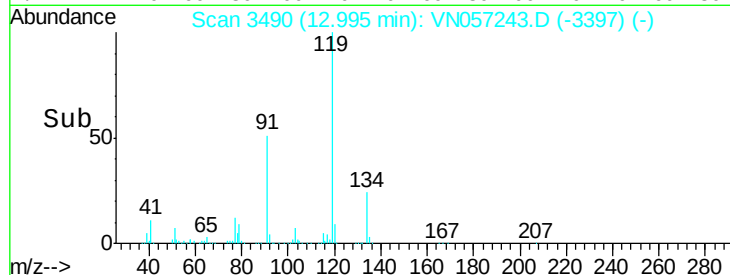
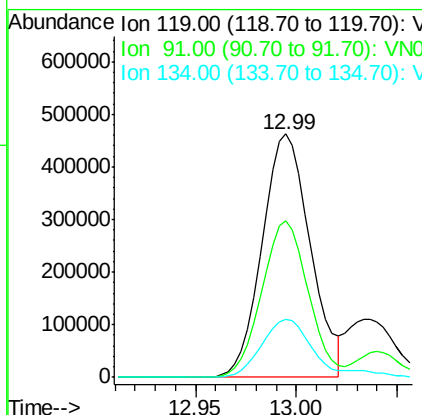
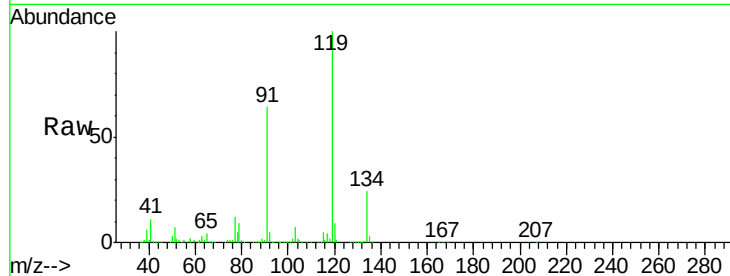
ClientSampled :

VSTDIC020

Tot Ion	Ion	Ratio	Resp	Lower	Upper
119	100		768942		
91	62.1	30.8	92.3		
134	24.1	12.9	38.7		

Manual Integrations
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#84

1,2,4-Trimethylbenzene

Concen: 20.397 ug/l

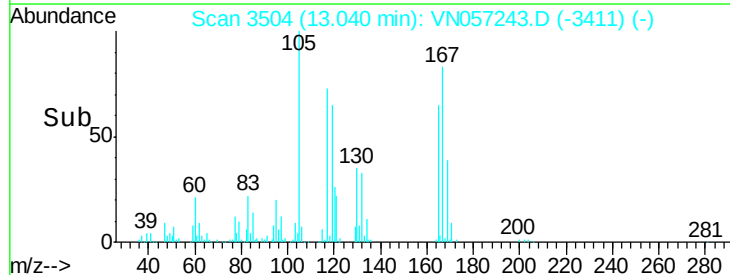
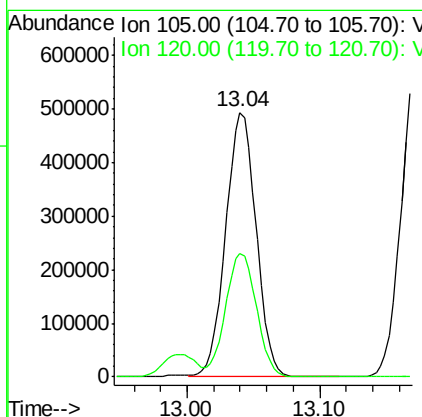
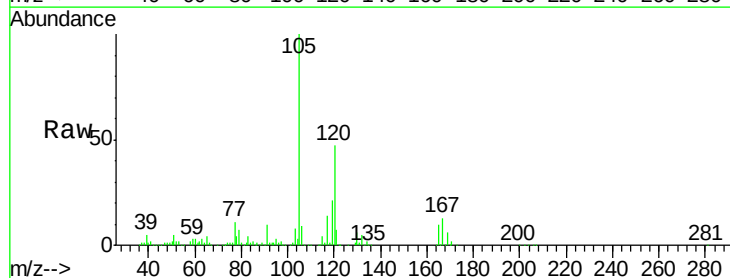
RT: 13.04 min Scan# 3504

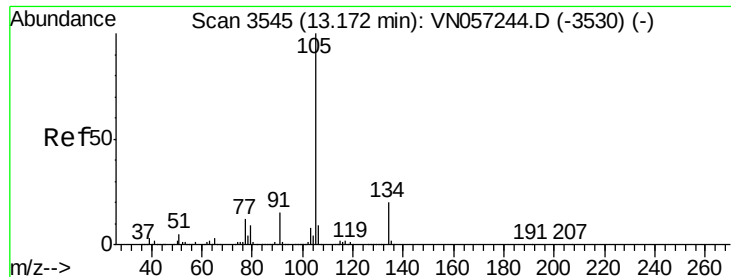
Delta R.T. 0.00 min

Lab File: VN057243.D

Acq: 13 Aug 2019 12:15

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
105	100		784380		
120	47.3	23.2	69.5		





#85

sec-Butylbenzene

Concen: 20.689 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. 0.00 min

Lab File: VN057243.D

Acq: 13 Aug 2019 12:15

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion:105 Resp: 911112

Ion Ratio Lower Upper

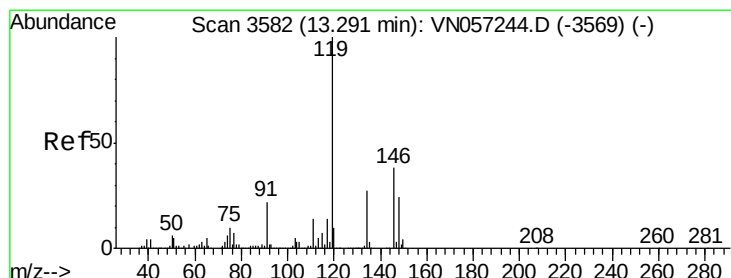
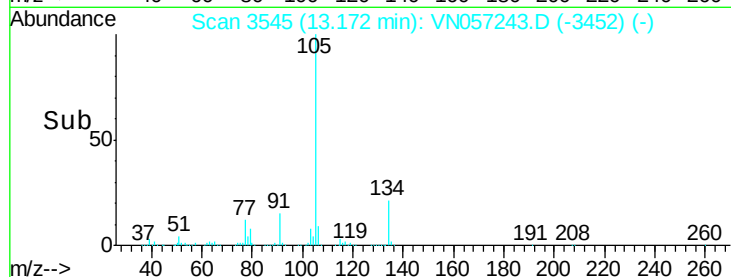
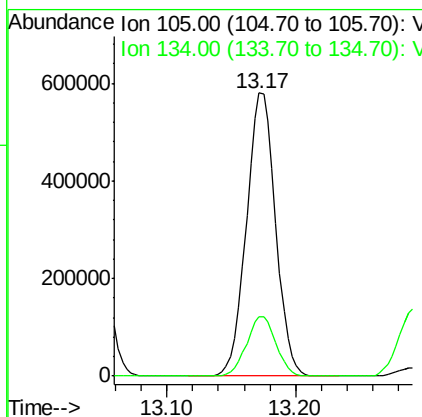
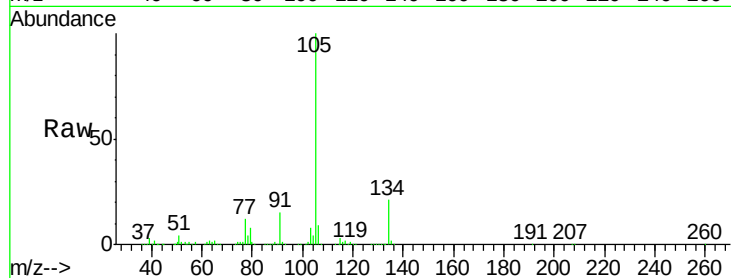
105 100

134 21.3 10.4 31.2

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#86

p-Isopropyltoluene

Concen: 19.713 ug/l

RT: 13.29 min Scan# 3582

Delta R.T. 0.00 min

Lab File: VN057243.D

Acq: 13 Aug 2019 12:15

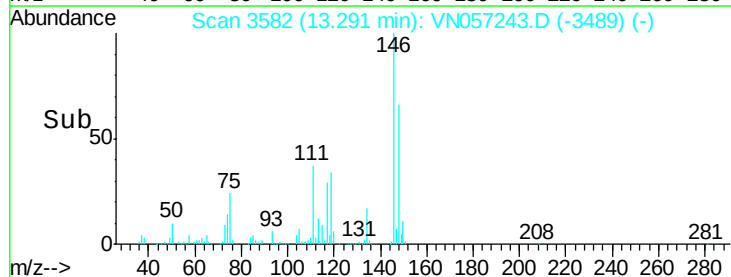
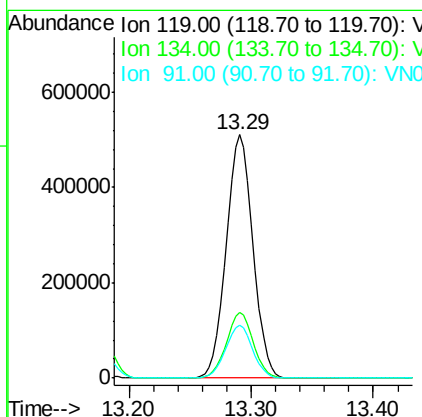
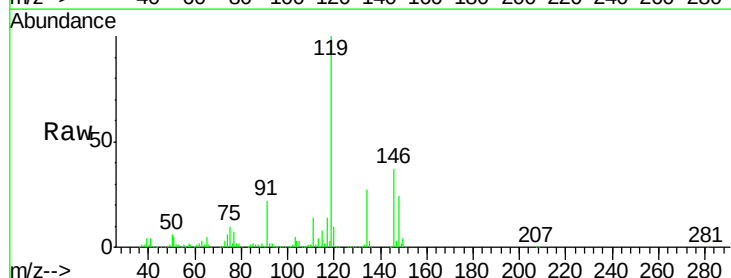
Tgt Ion:119 Resp: 782268

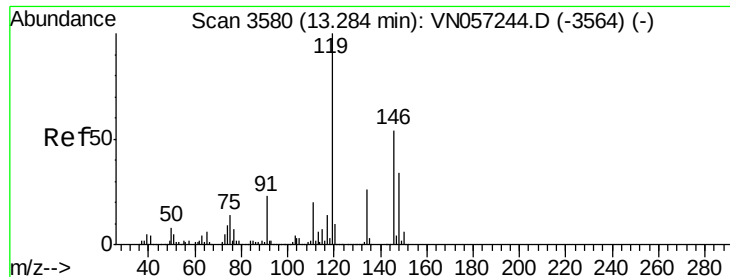
Ion Ratio Lower Upper

119 100

134 27.0 13.5 40.5

91 21.9 11.1 33.3





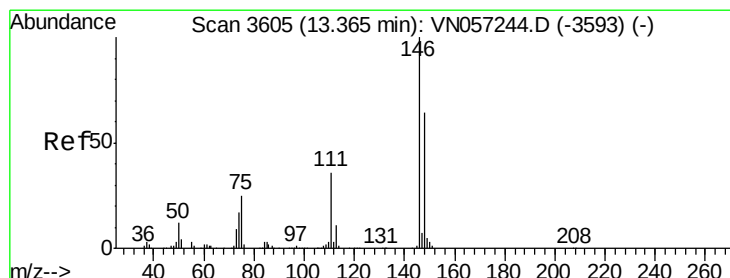
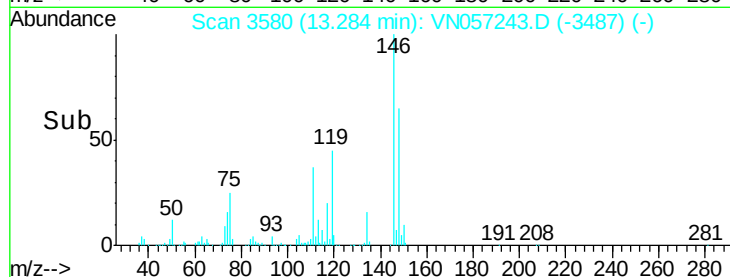
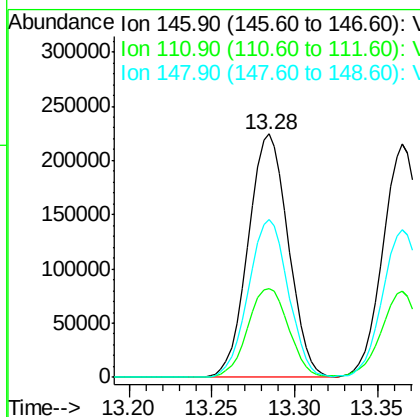
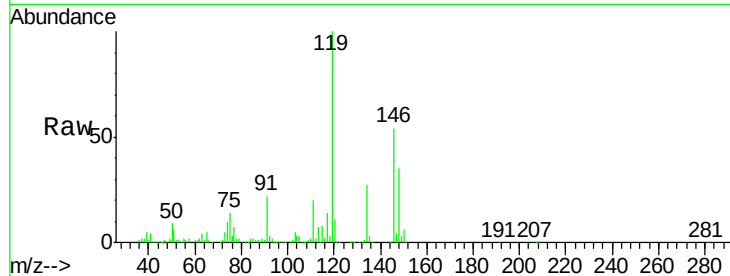
#87
 1,3-Dichlorobenzene
 Concen: 18.957 ug/l
 RT: 13.28 min Scan# 3580
 Delta R.T. 0.00 min
 Lab File: VN057243.D
 Acq: 13 Aug 2019 12:15

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
146	100		
111	37.3	18.8	56.4
148	64.5	32.1	96.5

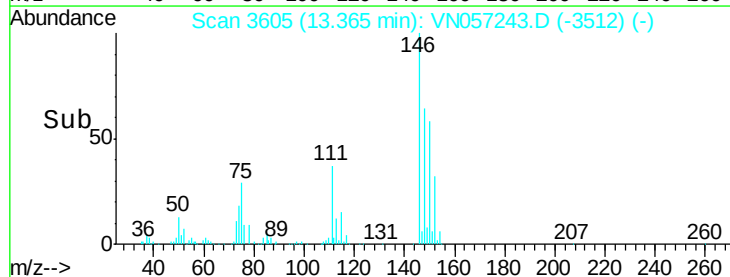
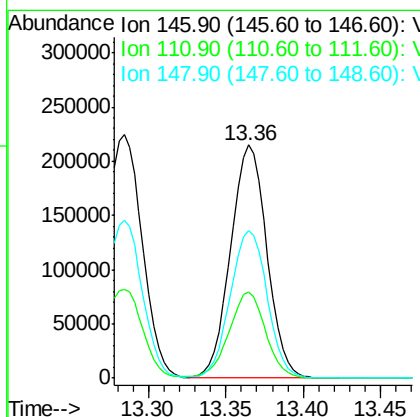
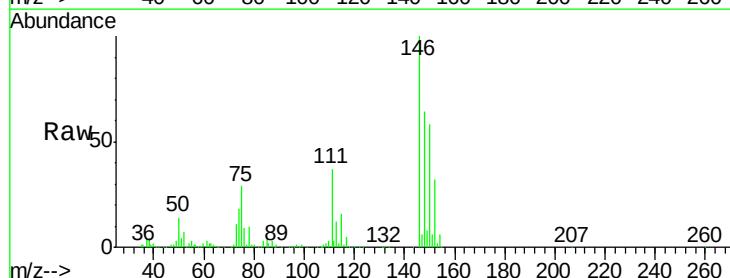
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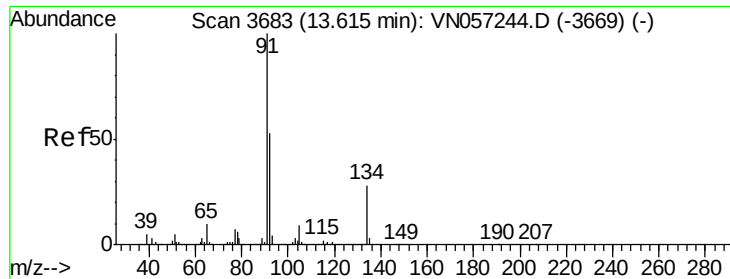
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#88
 1,4-Dichlorobenzene
 Concen: 18.170 ug/l
 RT: 13.36 min Scan# 3605
 Delta R.T. 0.00 min
 Lab File: VN057243.D
 Acq: 13 Aug 2019 12:15

Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.5	18.3	54.8
148	64.8	32.0	96.0





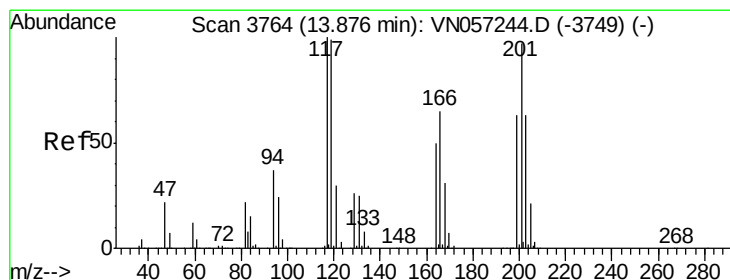
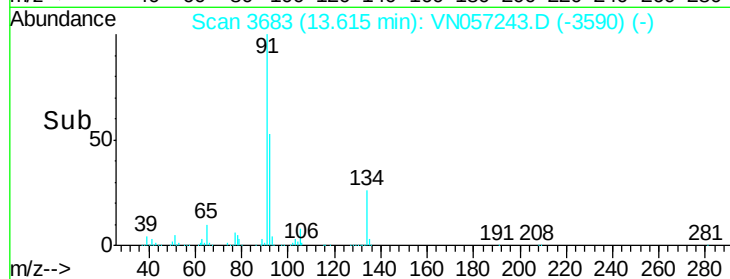
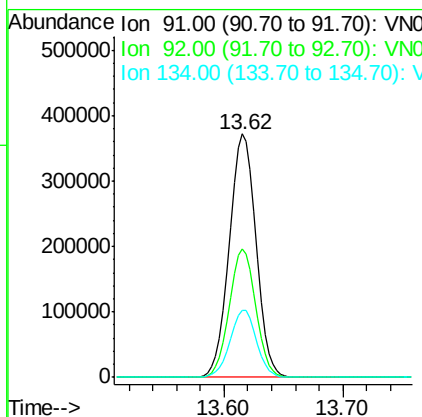
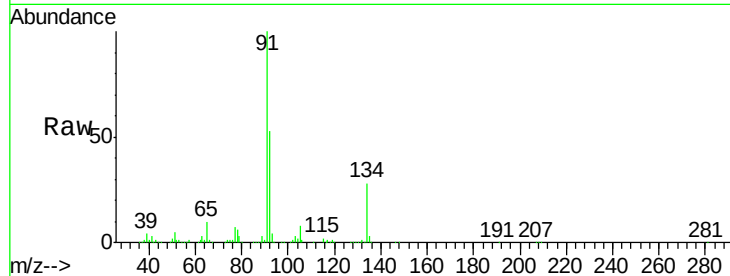
#89
n-Butylbenzene
Concen: 18.557 ug/l
RT: 13.62 min Scan# 3683
Delta R.T. 0.00 min
Lab File: VN057243.D
Acq: 13 Aug 2019 12:15

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
91	100		
92	52.2	26.3	78.9
134	27.3	14.1	42.3

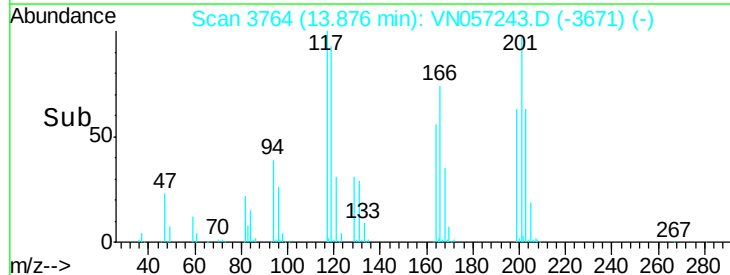
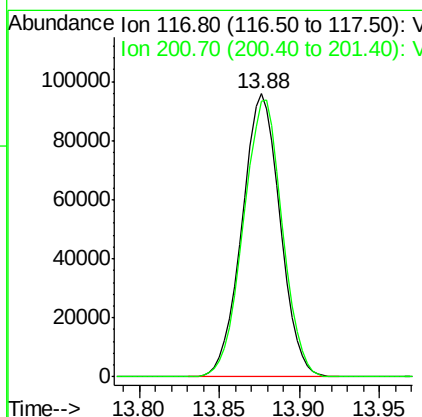
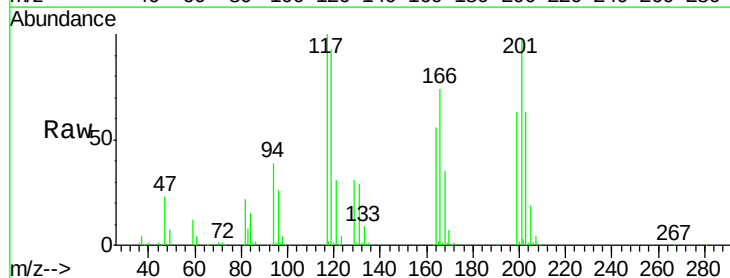
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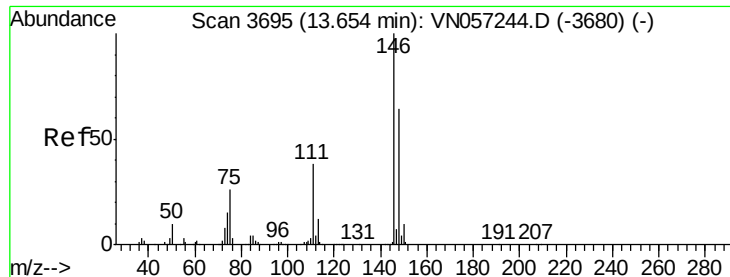
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#90
Hexachloroethane
Concen: 23.636 ug/l
RT: 13.88 min Scan# 3764
Delta R.T. 0.00 min
Lab File: VN057243.D
Acq: 13 Aug 2019 12:15

Tgt Ion	Ratio	Lower	Upper
117	100		
201	99.7	49.5	148.5





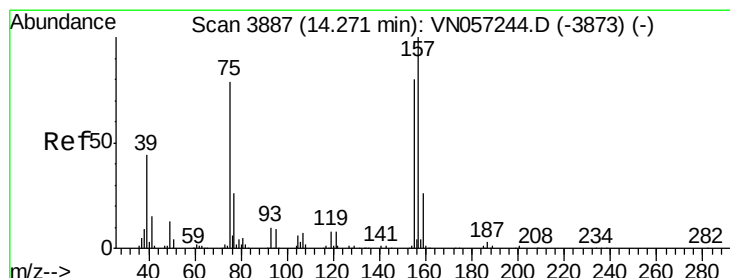
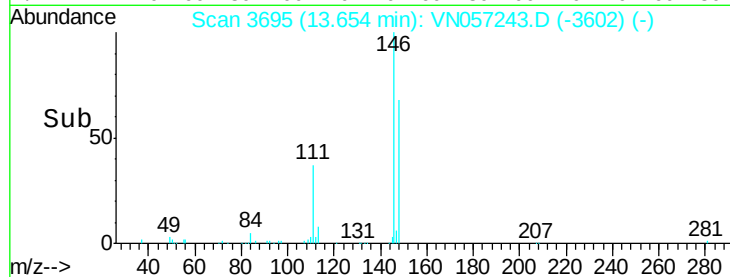
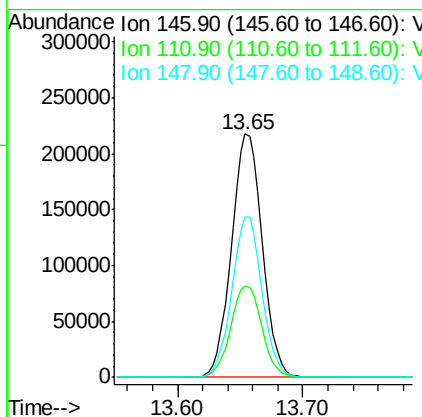
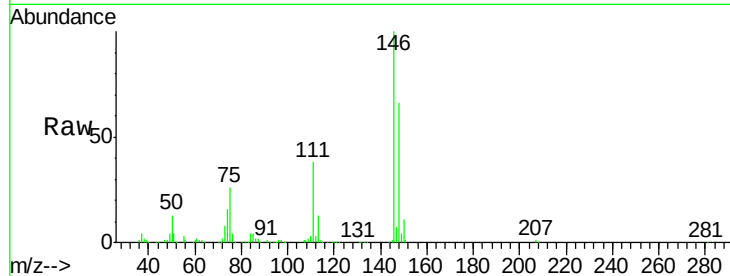
#91
 1,2-Dichlorobenzene
 Concen: 18.337 ug/l
 RT: 13.65 min Scan# 3695
 Delta R.T. 0.00 min
 Lab File: VN057243.D
 Acq: 13 Aug 2019 12:15

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.0	19.3	57.9
148	64.4	31.9	95.5

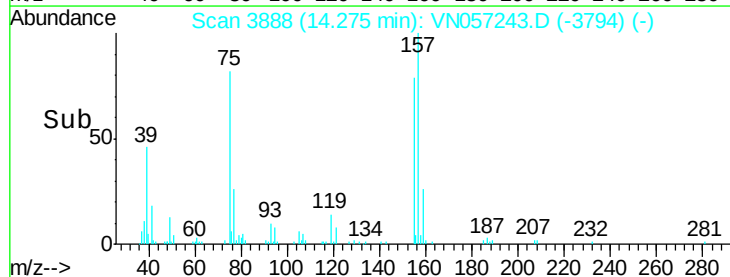
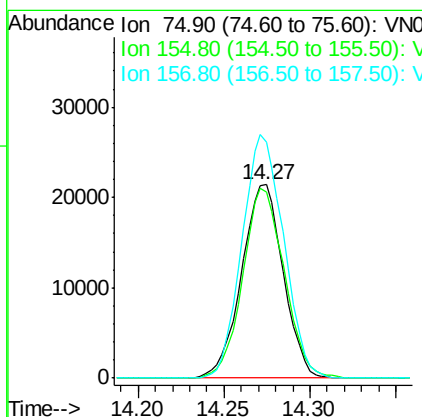
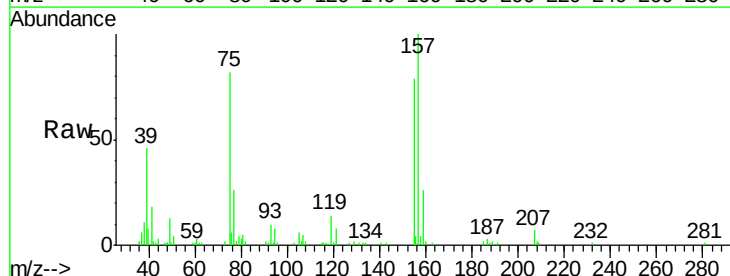
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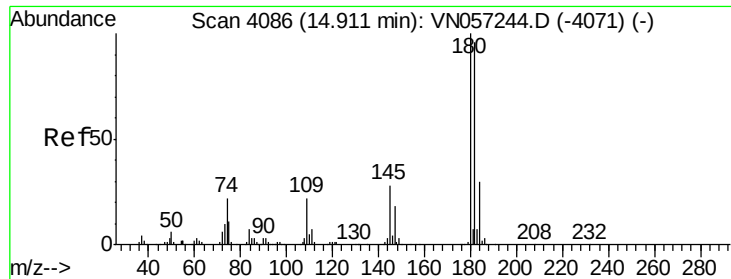
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 15.056 ug/l
 RT: 14.27 min Scan# 3888
 Delta R.T. 0.00 min
 Lab File: VN057243.D
 Acq: 13 Aug 2019 12:15

Tgt Ion	Ratio	Lower	Upper
75	100		
155	97.9	50.3	151.0
157	125.8	65.3	195.9





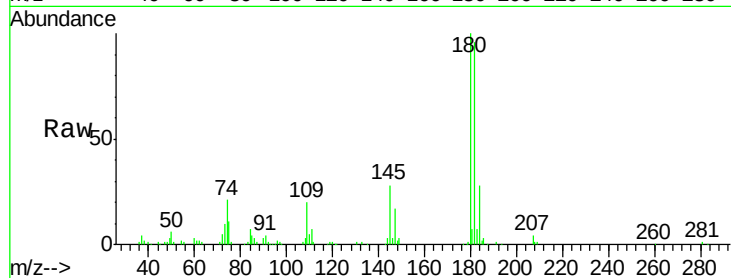
#93
 1,2,4-Trichlorobenzene
 Concen: 10.880 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. 0.00 min
 Lab File: VN057243.D
 Acq: 13 Aug 2019 12:15

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

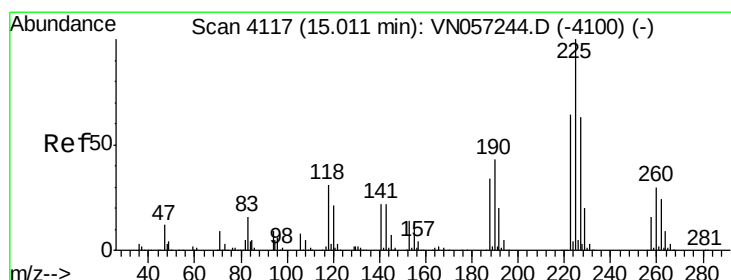
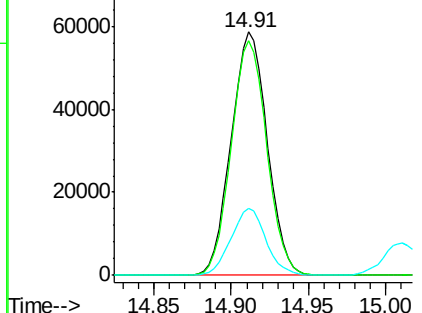
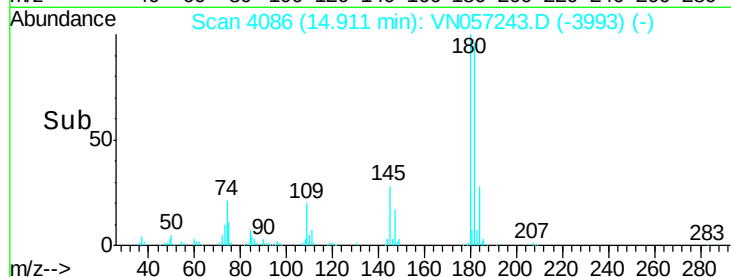
Tot Ion	Ratio	Resp	Lower	Upper
180	100	94898		
182	94.6	47.7	143.1	
145	26.6	14.2	42.6	

Manual Integrations
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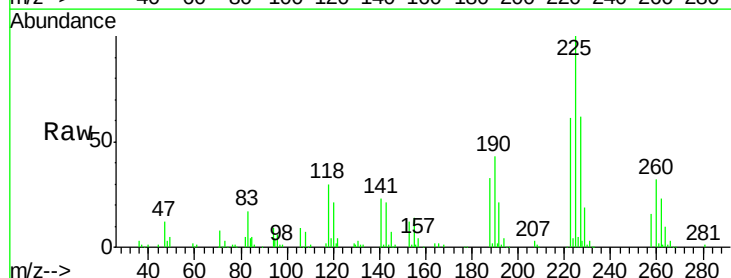


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

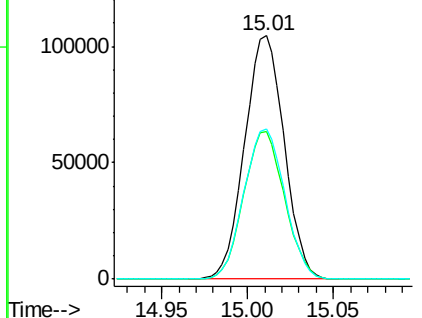
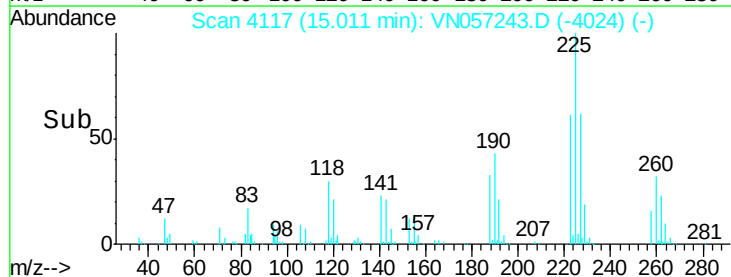


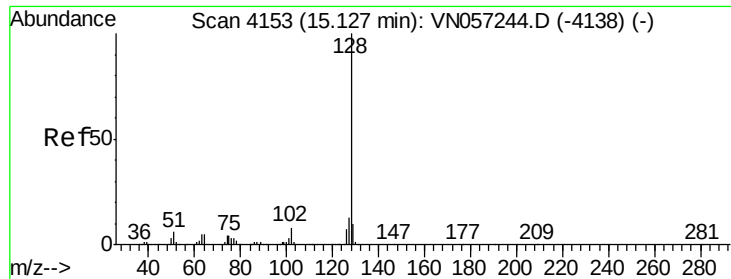
#94
 Hexachlorobutadiene
 Concen: 22.298 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. 0.00 min
 Lab File: VN057243.D
 Acq: 13 Aug 2019 12:15

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	167165		
223	62.6	31.4	94.2	
227	64.1	31.4	94.3	



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





#95

Naphthalene

Concen: 7.592 ug/l

RT: 15.13 min Scan# 4153

Delta R.T. 0.00 min

Lab File: VN057243.D

Acq: 13 Aug 2019 12:15

Instrument :

MSVOA_N

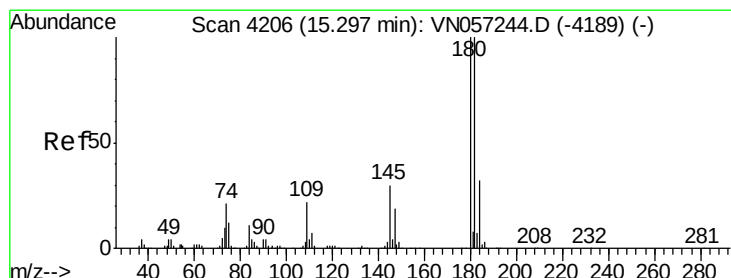
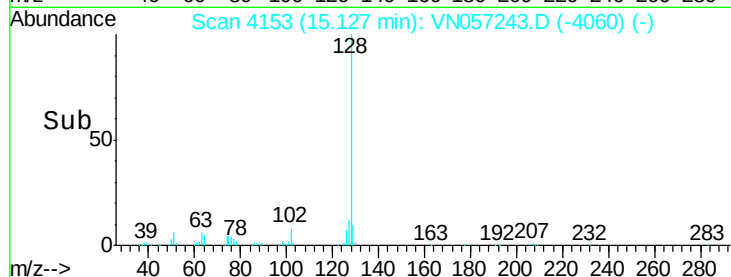
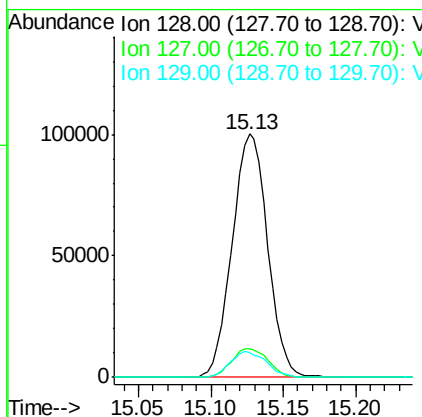
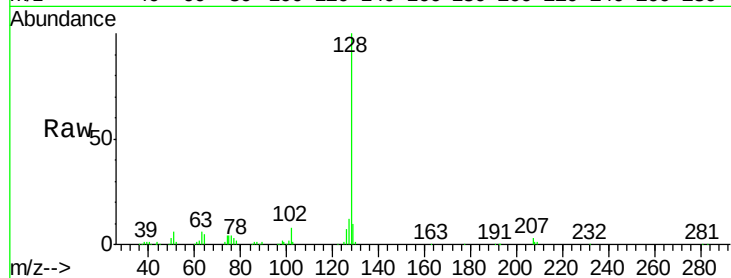
ClientSampleId :

VSTDIC020

Tot Ion:	128	Resp:	170071
Ion Ratio	Lower	Upper	
128	100		
127	12.1	10.4	15.6
129	10.9	8.5	12.7

Manual Integrations
APPROVED

MMDadoda
8/14/2019 12:29:46 PM



#96

1,2,3-Trichlorobenzene

Concen: 10.150 ug/l

RT: 15.30 min Scan# 4206

Delta R.T. 0.00 min

Lab File: VN057243.D

Acq: 13 Aug 2019 12:15

Tgt Ion:	180	Resp:	90276
Ion Ratio	Lower	Upper	
180	100		
182	98.4	48.9	146.7
145	29.7	15.0	45.1

