

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN083019\
 Data File : VN057576.D
 Acq On : 30 Aug 2019 9:08
 Operator : JC/SP
 Sample : VSTDIC005
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Manual Integrations
 APPROVED

MMDadoda
 8/31/2019 10:00:17 AM

Quant Time: Aug 30 23:36:52 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\624N083019W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Aug 30 23:13:27 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.18	128	81046	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.58	114	469404	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.40	117	384201	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.01	65	199700	26.48	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	88.27%
60) 4-Bromofluorobenzene	12.40	95	153416	24.54	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	81.80%
63) Toluene-d8	10.09	98	571861	30.05	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.17%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.85	85	21872	5.116 ug/l	92
3) Chloromethane	2.06	50	22130	3.777 ug/l	97
4) Vinyl Chloride	2.19	62	32885	4.309 ug/l	88
5) Bromomethane	2.55	94	32760	6.172 ug/l	96
6) Chloroethane	2.70	64	22808	4.388 ug/l	91
7) Trichlorofluoromethane	3.01	101	74911	5.724 ug/l	99
8) Diethyl Ether	3.40	74	25246	5.194 ug/l	97
9) 1,1,2-Trichlorotrifluoroet	3.74	101	44846	5.968 ug/l	91
10) 1,1-Dichloroethene	3.72	96	42386	5.926 ug/l	94
11) Methyl Iodide	3.93	142	66929	8.493 ug/l	99
12) Methyl Acetate	4.31	43	27993	4.322 ug/l	99
13) Acrolein	3.59	56	15945	19.633 ug/l	87
14) Acrylonitrile	4.98	53	41272	18.093 ug/l #	52
15) Acetone	3.81	58	25260	23.447 ug/l	99
16) Carbon Disulfide	4.03	76	40398	3.501 ug/l	98
17) Allyl chloride	4.30	41	28297	3.245 ug/l	95
18) Methylene Chloride	4.54	84	22783m	4.584 ug/l	
19) trans-1,2-Dichloroethene	5.01	96	22134	4.677 ug/l	88
20) Diisopropyl ether	5.94	45	65615	3.483 ug/l	91
21) 1,1-Dichloroethane	5.83	63	42241	4.207 ug/l	96
22) cis-1,2-Dichloroethene	6.81	96	29546	5.104 ug/l	99
23) tert-Butyl Alcohol	4.79	59	16496	19.787 ug/l #	100
24) Methyl tert-Butyl Ether	5.03	73	72088	4.607 ug/l #	69
25) Chloroform	7.36	83	49569	4.810 ug/l	100
26) Cyclohexane	7.63	56	34583	3.887 ug/l #	97
29) 1,1-Dichloropropene	7.78	75	33723	4.363 ug/l	98
30) 2-Butanone	6.83	43	58942	16.803 ug/l #	96
31) 2,2-Dichloropropane	6.81	77	41519	4.691 ug/l #	76
32) 1,1,1-Trichloroethane	7.55	97	44845m	4.952 ug/l	
33) Carbon Tetrachloride	7.76	117	36292	4.815 ug/l	94
34) Benzene	8.03	78	101349	4.455 ug/l #	66
35) Methacrylonitrile	7.16	41	10833	3.102 ug/l	97
36) 1,2-Dichloroethane	8.11	62	38486	4.324 ug/l	100
37) Trichloroethene	8.82	130	28985	5.364 ug/l	98
38) Methylcyclohexane	9.07	83	37581	4.256 ug/l	92
39) 1,2-Dichloropropane	9.11	63	26121	4.142 ug/l	97
40) Dibromomethane	9.20	93	19010	4.733 ug/l	96

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

Instrument :
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 VSTDIC005

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

41) Bromodichloromethane	9.40	83	36179	4.264	ug/l	100
42) Vinyl Acetate	5.88	43	257442m	16.263	ug/l	
43) Ethyl Acetate	6.92	43	19793	2.887	ug/l #	81
44) Isopropyl Acetate	8.16	43	43486	3.307	ug/l	99
45) 1,4-Dioxane	9.20	88	7099	85.327	ug/l #	84
46) Methyl methacrylate	9.19	41	20702	3.305	ug/l	94
47) n-amyl Acetate	12.07	43	31099	2.902	ug/l	96
48) t-1,3-Dichloropropene	10.38	75	33260	3.756	ug/l	98
49) cis-1,3-Dichloropropene	9.83	75	38728	3.996	ug/l	96
50) 1,1,2-Trichloroethane	10.56	97	26329	4.975	ug/l	91
51) Ethyl methacrylate	10.43	69	31740	3.737	ug/l	97
52) 1,3-Dichloropropane	10.71	76	40745	4.316	ug/l	97
53) Dibromochloromethane	10.90	129	24917	4.386	ug/l	99
54) 1,2-Dibromoethane	11.00	107	25074	4.596	ug/l	99
55) 2-Chloroethyl vinyl ether	9.69	63	35624	16.725	ug/l	99
56) Bromoform	12.13	173	14454	4.170	ug/l #	64
58) 4-Methyl-2-Pentanone	9.98	43	118724	17.299	ug/l	98
59) 2-Hexanone	10.75	43	79210	16.659	ug/l	99
61) Tetrachloroethene	10.63	164	29270	6.501	ug/l	90
62) Toluene	10.15	91	110483	4.825	ug/l	99
64) Chlorobenzene	11.43	112	65190	5.101	ug/l	95
65) 1,1,1,2-Tetrachloroethane	11.51	131	24662	5.079	ug/l	93
66) Ethyl Benzene	11.51	91	117261	4.751	ug/l	99
67) m/p-Xylenes	11.62	106	82378	9.464	ug/l	98
68) o-Xylene	11.94	106	39934	4.663	ug/l	93
69) Styrene	11.96	104	58227	4.212	ug/l	98
70) Isopropylbenzene	12.25	105	110700	4.781	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.50	83	28364	4.374	ug/l	99
72) 1,2,3-Trichloropropane	12.55	75	25655m	4.395	ug/l	
73) Bromobenzene	12.53	156	23870	4.969	ug/l	96
74) n-propylbenzene	12.59	91	108258	4.156	ug/l	98
75) 2-Chlorotoluene	12.67	91	65930	4.300	ug/l	99
76) 1,3,5-Trimethylbenzene	12.73	105	86373	4.544	ug/l	100
77) t-1,4-Dichloro-2-butene	12.30	75	6650	3.312	ug/l	99
78) 4-Chlorotoluene	12.77	91	55841	3.798	ug/l	98
79) tert-butylbenzene	12.99	119	81694	5.001	ug/l	99
80) 1,2,4-Trimethylbenzene	13.04	105	70363	3.938	ug/l	97
81) sec-Butylbenzene	13.17	105	96713	4.515	ug/l	98
82) p-Isopropyltoluene	13.29	119	76990	4.215	ug/l	100
83) 1,3-Dichlorobenzene	13.29	146	30991	4.116	ug/l	96
84) 1,4-Dichlorobenzene	13.37	146	30060	4.099	ug/l	96
85) n-Butylbenzene	13.62	91	52139	3.349	ug/l	99
86) Hexachloroethane	13.88	117	13777	3.894	ug/l	99
87) 1,2-Dichlorobenzene	13.66	146	29436	3.981	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	3669	3.418	ug/l #	33
89) 1,2,4-Trichlorobenzene	14.91	180	8499	3.076	ug/l	97
90) Hexachlorobutadiene	15.01	225	12385	5.785	ug/l	99
91) Naphthalene	15.13	128	26293	3.026	ug/l	96
92) 1,2,3-Trichlorobenzene	15.30	180	8801	3.227	ug/l	98

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ALS Vial : 3 Sample Multiplier: 1

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MSVOA_N
ClientSampleId :
VSTDICC005

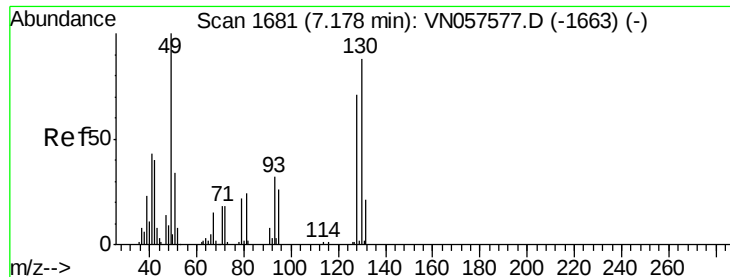
Manual Integrations
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.18 min Scan# 1681

Delta R.T. 0.00 min

Lab File: VN057576.D

Acq: 30 Aug 2019 9:08

Instrument :

MSVOA_N

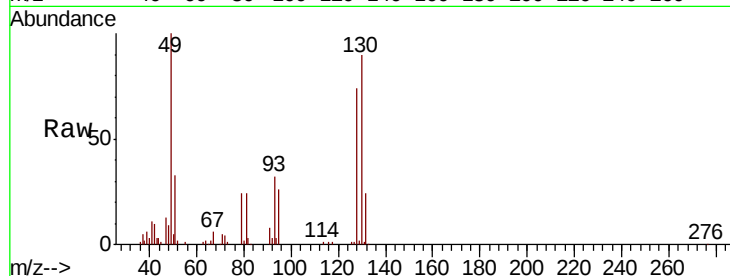
ClientSampleId :

VSTDIC005

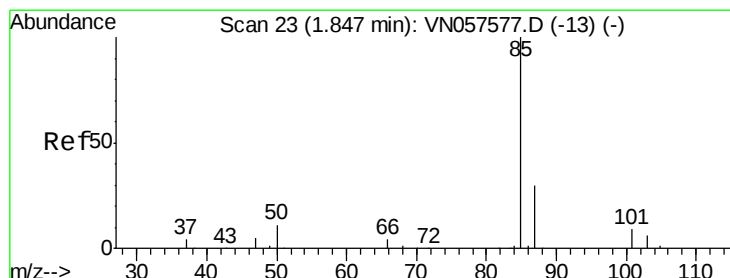
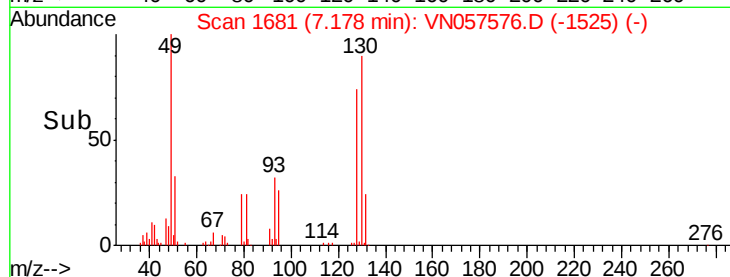
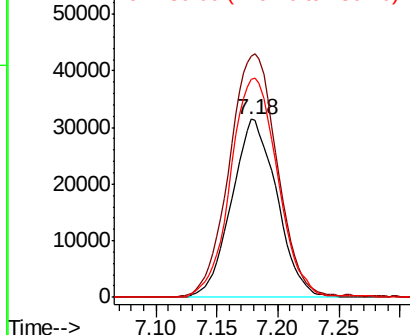
Tgt Ion:	128	Resp:	81046
Ion	Ratio	Lower	Upper
128	100		
49	144.7	0.0	352.3
130	127.6	0.0	324.7

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Abundance Ion 128.00 (127.70 to 128.70): V
Ion 49.00 (48.70 to 49.70): V
Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 5.116 ug/l

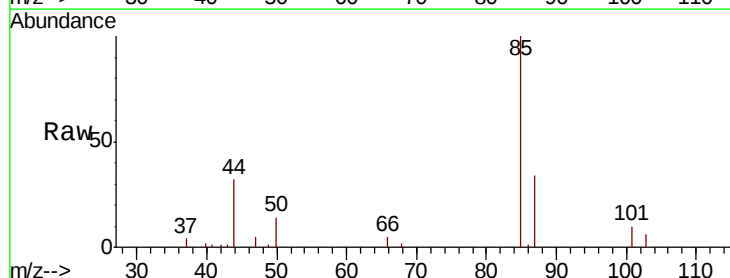
RT: 1.85 min Scan# 23

Delta R.T. 0.00 min

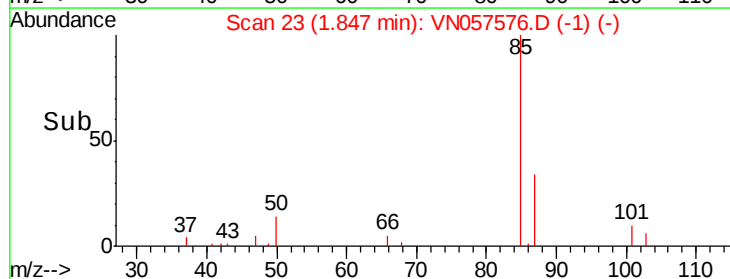
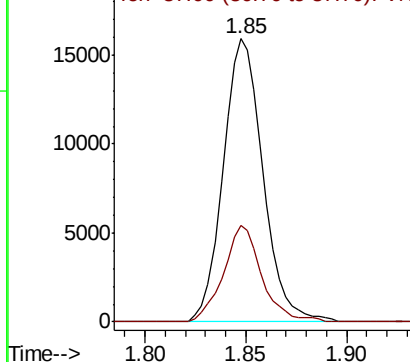
Lab File: VN057576.D

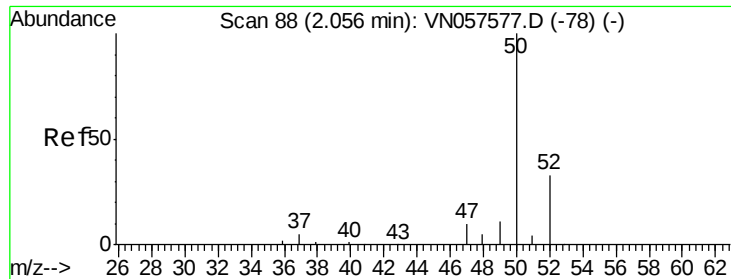
Acq: 30 Aug 2019 9:08

Tgt Ion:	85	Resp:	21872
Ion	Ratio	Lower	Upper
85	100		
87	34.3	15.0	45.0



Abundance Ion 85.00 (84.70 to 85.70): V
Ion 87.00 (86.70 to 87.70): V





#3

Chloromethane

Concen: 3.777 ug/l

RT: 2.06 min Scan# 88

Delta R.T. 0.00 min

Lab File: VN057576.D

Acq: 30 Aug 2019 9:08

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 50 Resp: 22130

Ion Ratio Lower Upper

50 100

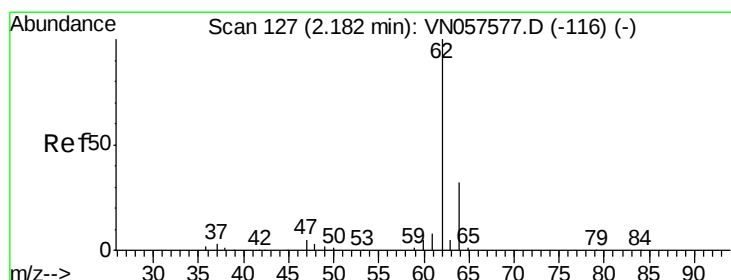
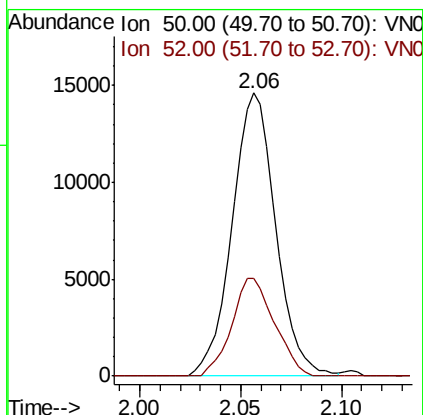
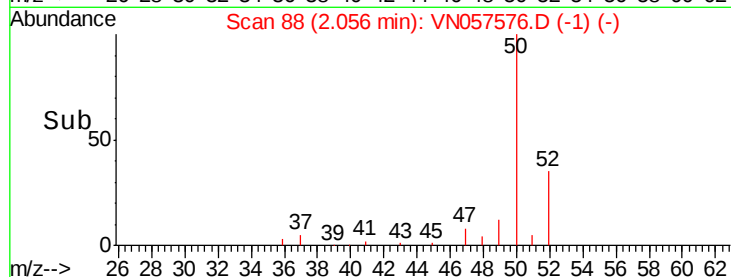
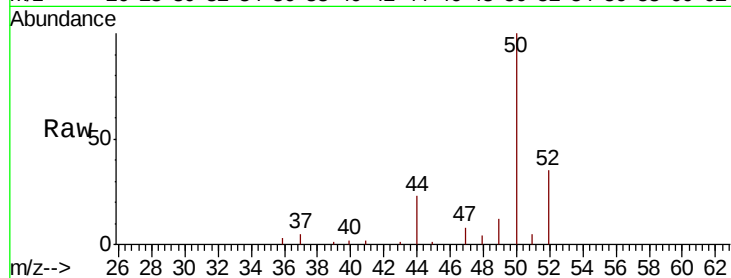
52 34.6 26.2 39.2

Manual Integrations

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8/31/2019 10:00:17 AM



#4

Vinyl Chloride

Concen: 4.309 ug/l

RT: 2.19 min Scan# 128

Delta R.T. 0.00 min

Lab File: VN057576.D

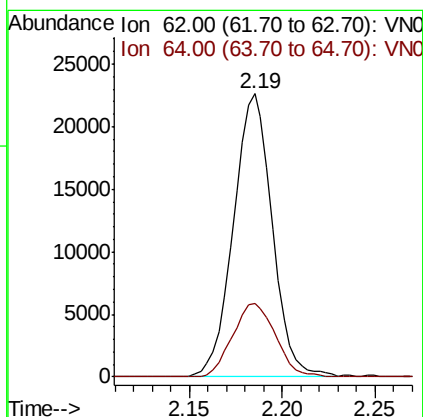
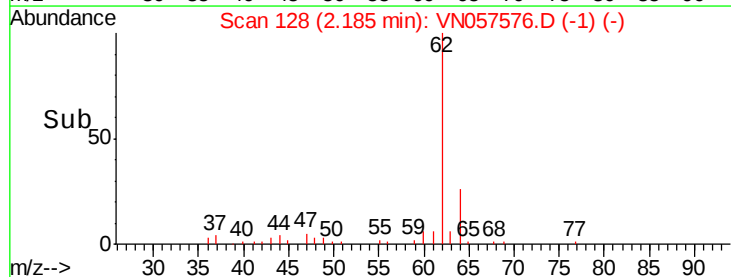
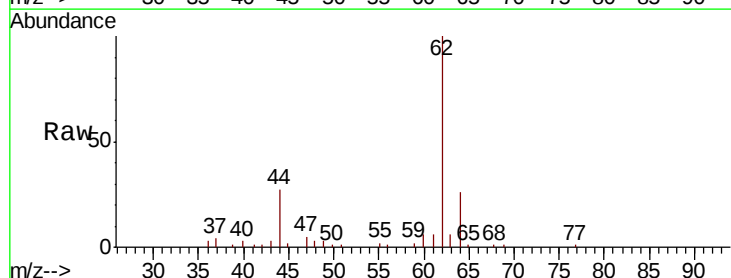
Acq: 30 Aug 2019 9:08

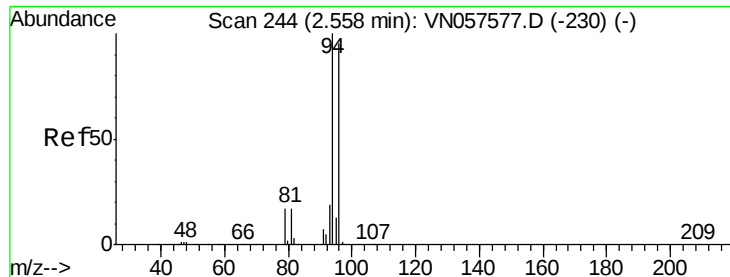
Tgt Ion: 62 Resp: 32885

Ion Ratio Lower Upper

62 100

64 26.0 25.9 38.9





#5

Bromomethane

Concen: 6.172 ug/l

RT: 2.55 min Scan# 243

Delta R.T. -0.00 min

Lab File: VN057576.D

Acq: 30 Aug 2019 9:08

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 94 Resp: 32760

Ion Ratio Lower Upper

94 100

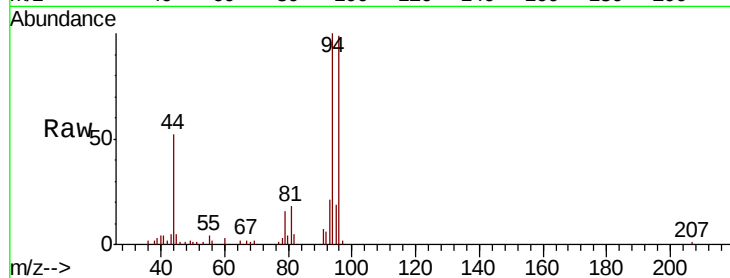
96 99.5 76.2 114.4

Manual Integrations

APPROVED

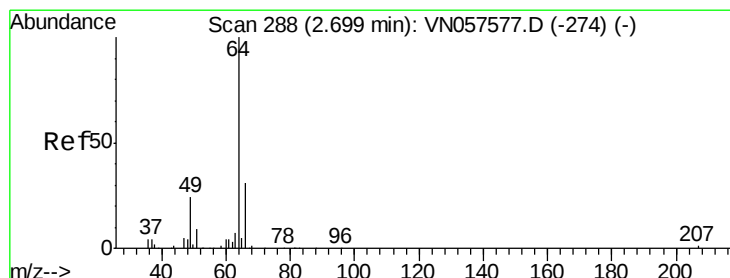
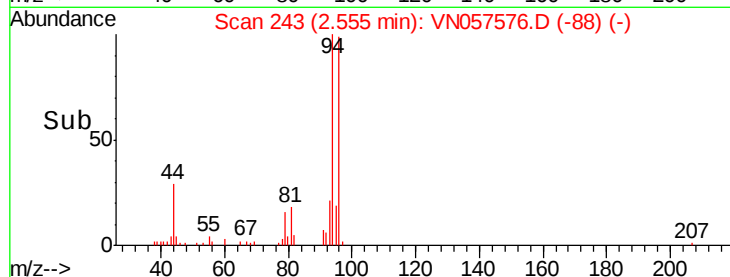
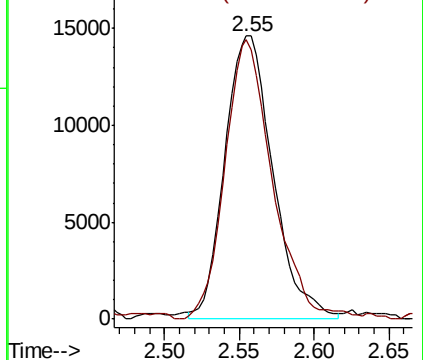
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Abundance Ion 94.00 (93.70 to 94.70): VN0

Ion 96.00 (95.70 to 96.70): VN0



#6

Chloroethane

Concen: 4.388 ug/l

RT: 2.70 min Scan# 289

Delta R.T. 0.00 min

Lab File: VN057576.D

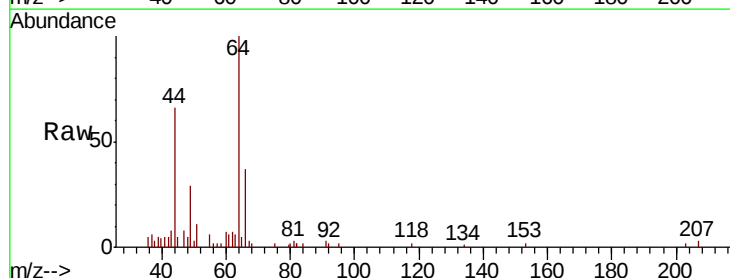
Acq: 30 Aug 2019 9:08

Tgt Ion: 64 Resp: 22808

Ion Ratio Lower Upper

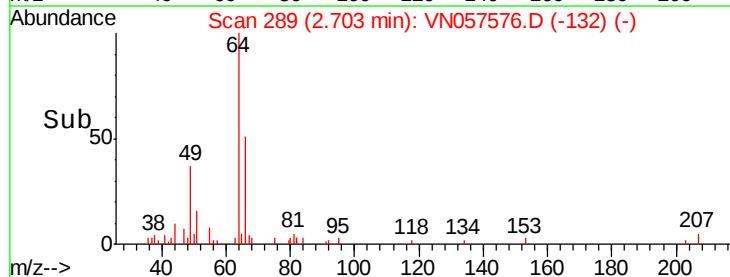
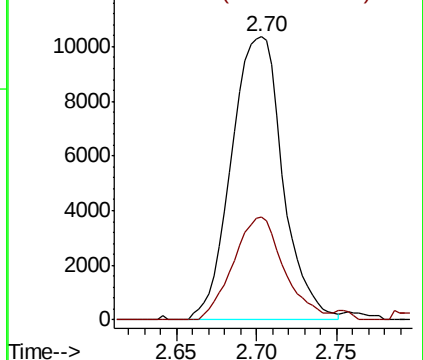
64 100

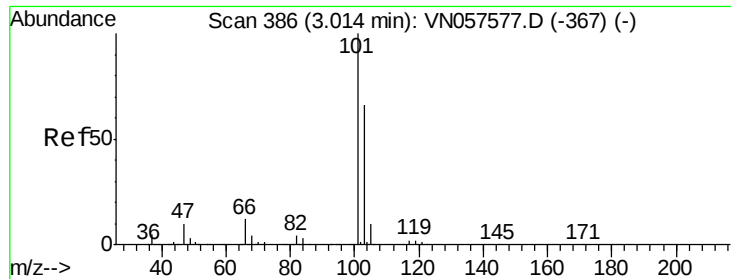
66 36.6 25.1 37.7



Abundance Ion 64.00 (63.70 to 64.70): VN0

Ion 66.00 (65.70 to 66.70): VN0





#7

Trichlorofluoromethane

Concen: 5.724 ug/l

RT: 3.01 min Scan# 386

Delta R.T. 0.00 min

Lab File: VN057576.D

Acq: 30 Aug 2019 9:08

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 101 Resp: 74911

Ion Ratio Lower Upper

101 100

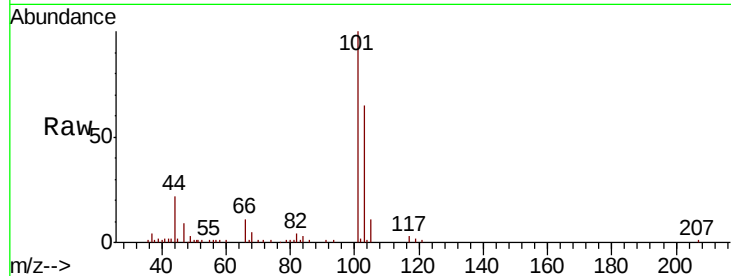
103 65.1 52.4 78.6

Manual Integrations

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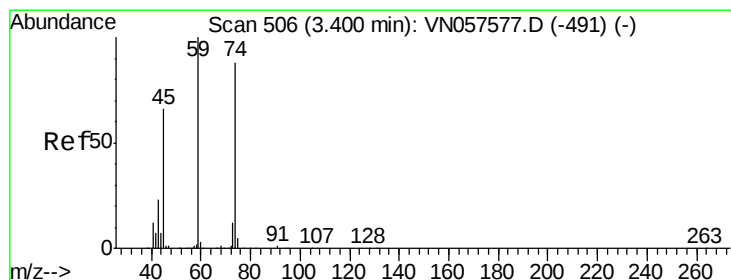
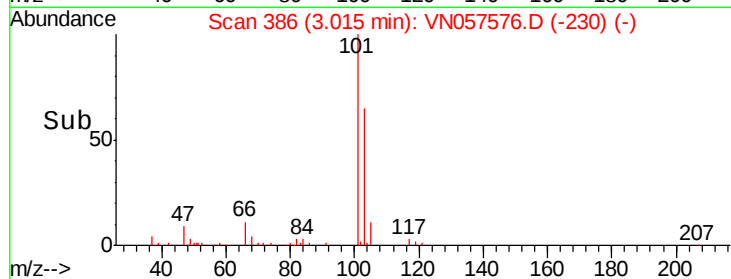
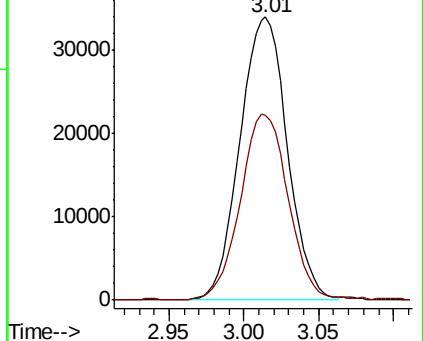
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8/31/2019 10:00:17 AM



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#8

Diethyl Ether

Concen: 5.194 ug/l

RT: 3.40 min Scan# 507

Delta R.T. 0.00 min

Lab File: VN057576.D

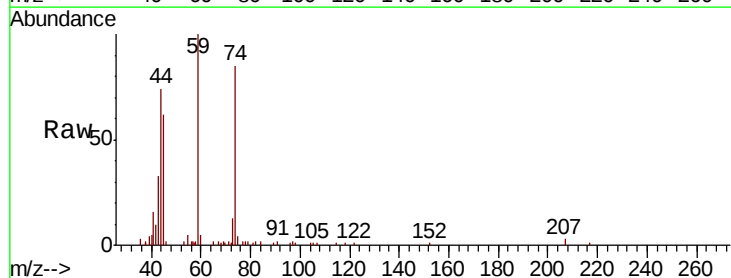
Acq: 30 Aug 2019 9:08

Tgt Ion: 74 Resp: 25246

Ion Ratio Lower Upper

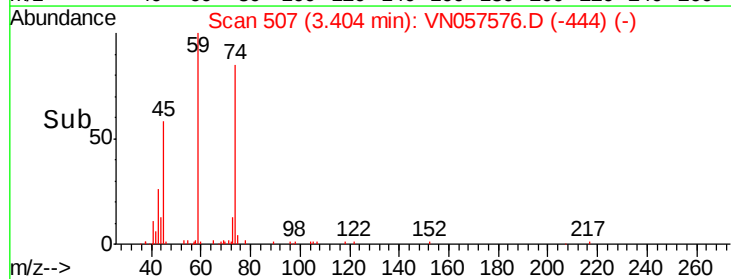
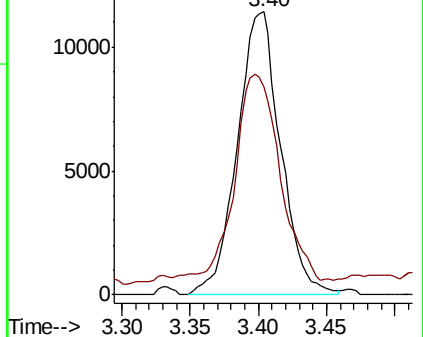
74 100

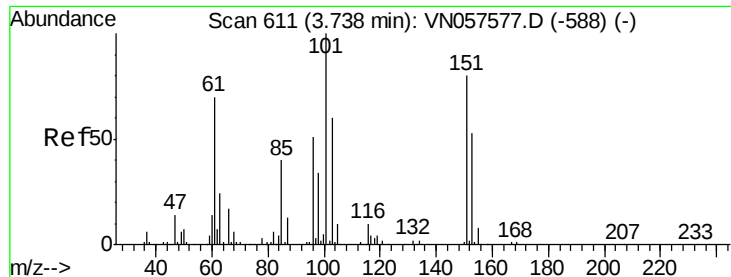
45 73.9 15.2 137.2



Abundance Ion 74.00 (73.70 to 74.70): VNO

Ion 45.00 (44.70 to 45.70): VNO





#9

1,1,2-Trichlorotrifluoroethane

Concen: 5.968 ug/l

RT: 3.74 min Scan# 612

Delta R.T. 0.00 min

Lab File: VN057576.D

Acq: 30 Aug 2019 9:08

Instrument :

MSVOA_N

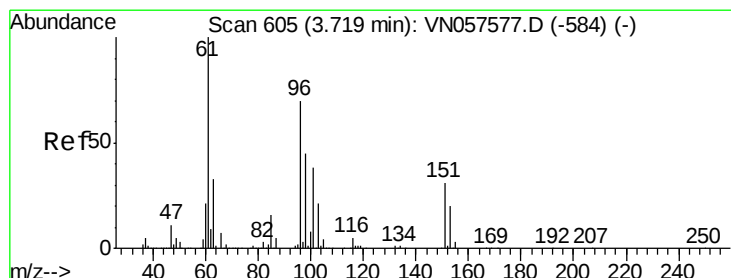
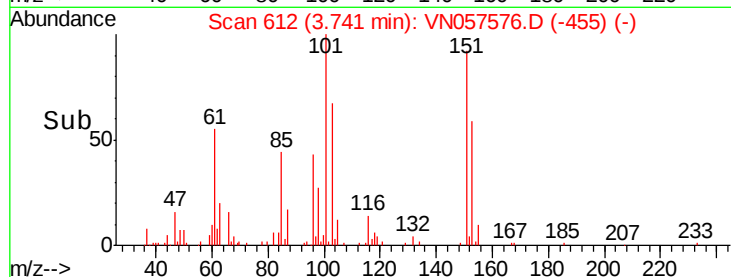
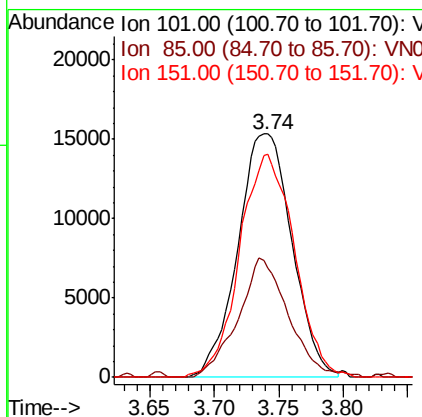
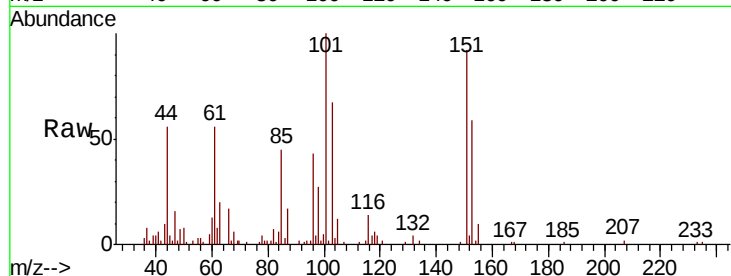
ClientSampled :

VSTDIC005

Tgt Ion:	101	Resp:	44846
Ion Ratio	Lower	Upper	
101	100		
85	45.7	0.0	83.2
151	92.0	0.0	166.6

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#10

1,1-Dichloroethene

Concen: 5.926 ug/l

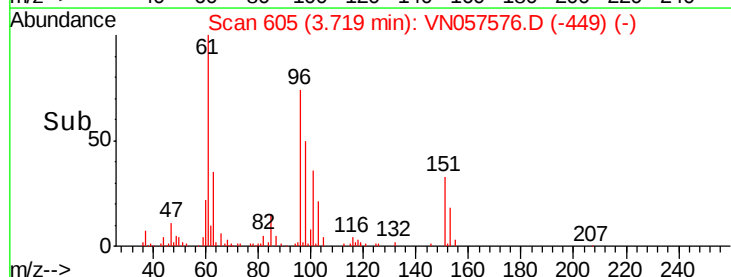
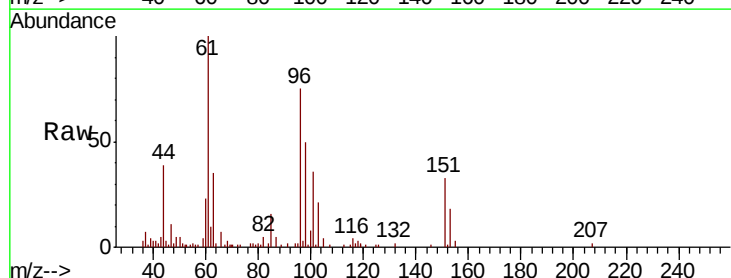
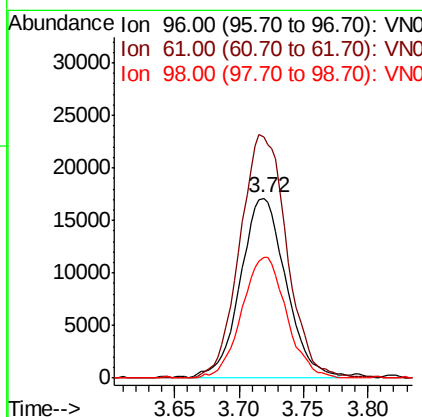
RT: 3.72 min Scan# 605

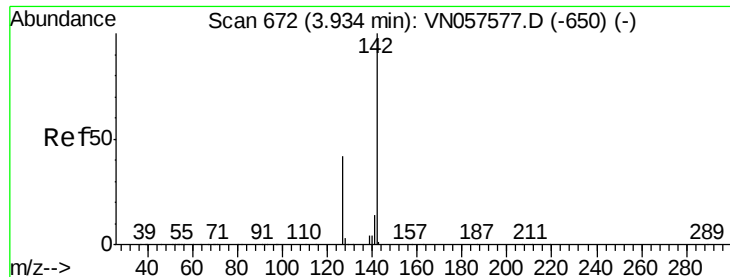
Delta R.T. 0.00 min

Lab File: VN057576.D

Acq: 30 Aug 2019 9:08

Tgt Ion:	96	Resp:	42386
Ion Ratio	Lower	Upper	
96	100		
61	134.1	114.2	171.4
98	67.4	51.8	77.6





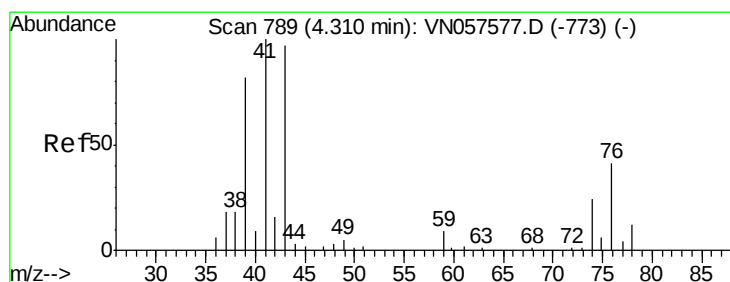
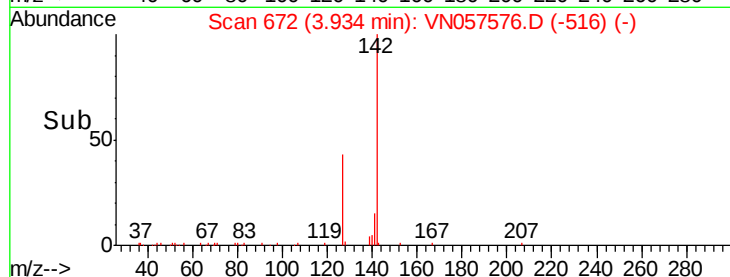
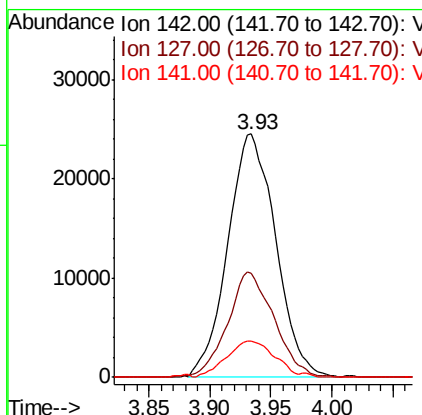
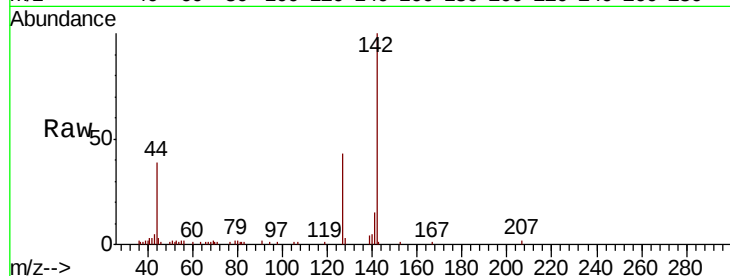
#11
Methyl Iodide
Concen: 8.493 ug/l
RT: 3.93 min Scan# 672
Delta R.T. 0.00 min
Lab File: VN057576.D
Acq: 30 Aug 2019 9:08

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tgt Ion	Ratio	Lower	Upper
142	100		
127	42.2	20.8	62.4
141	14.2	6.8	20.4

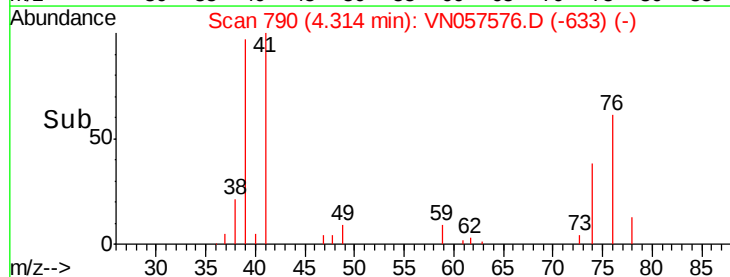
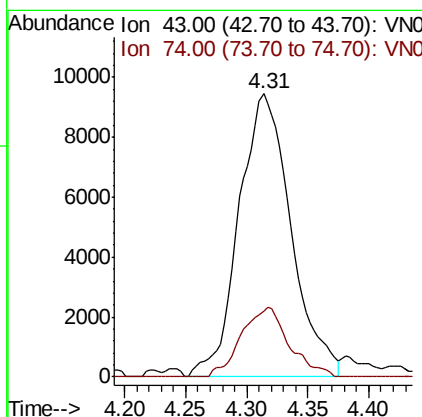
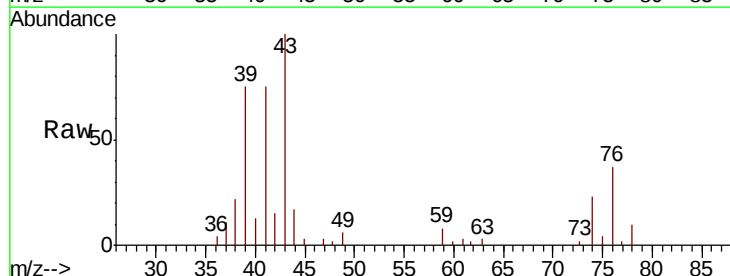
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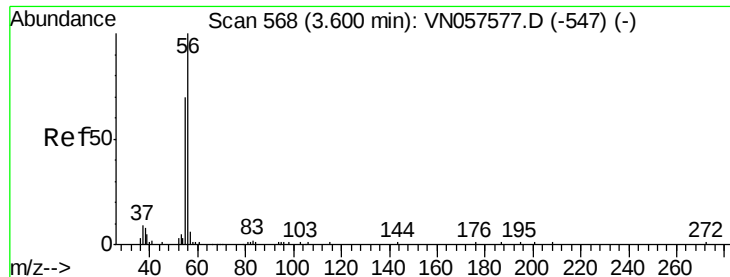
MMDadoda
8/31/2019 10:00:17 AM



#12
Methyl Acetate
Concen: 4.322 ug/l
RT: 4.31 min Scan# 790
Delta R.T. 0.00 min
Lab File: VN057576.D
Acq: 30 Aug 2019 9:08

Tgt Ion	Ratio	Lower	Upper
43	100		
74	23.8	19.6	29.4





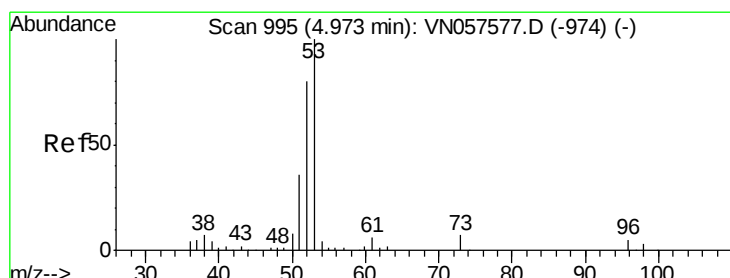
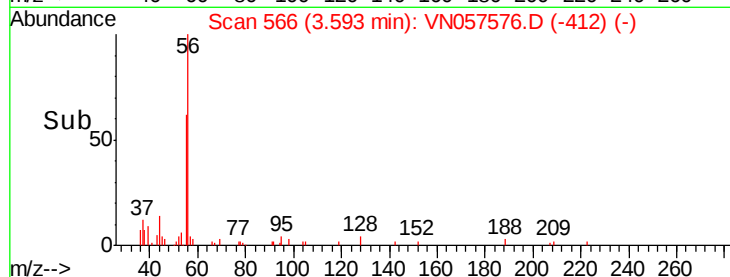
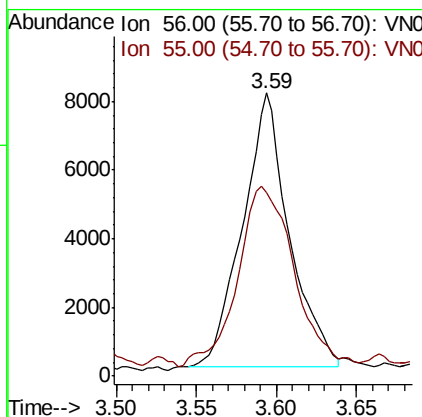
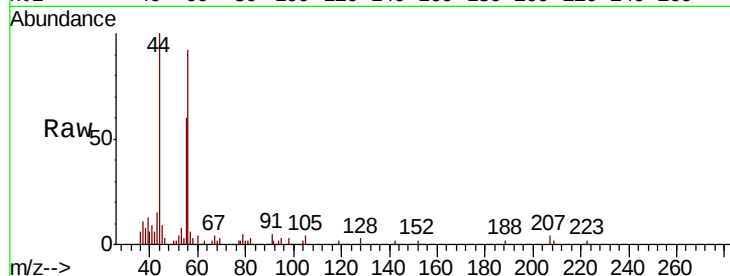
#13
Acrolein
Concen: 19.633 ug/l
RT: 3.59 min Scan# 566
Delta R.T. -0.01 min
Lab File: VN057576.D
Acq: 30 Aug 2019 9:08

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tgt Ion: 56 Resp: 15945
Ion Ratio Lower Upper
56 100
55 78.4 54.5 81.7

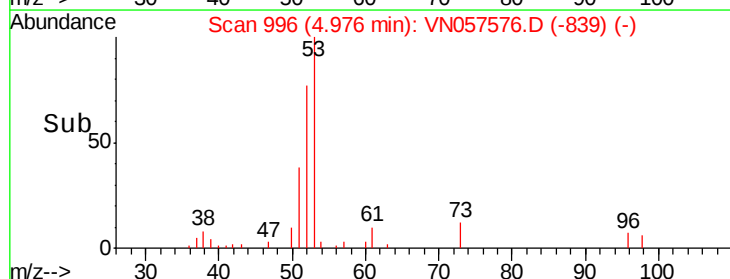
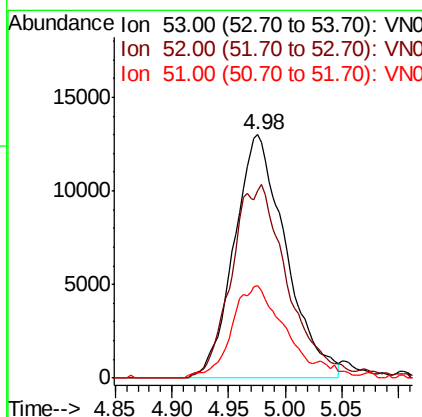
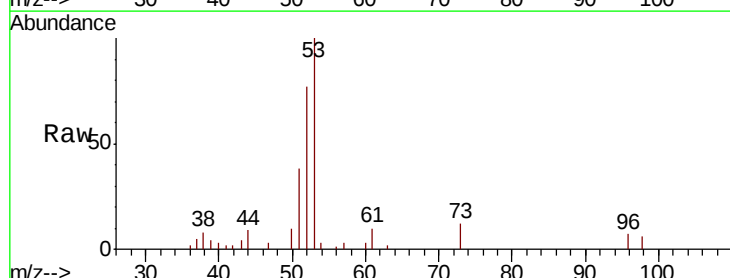
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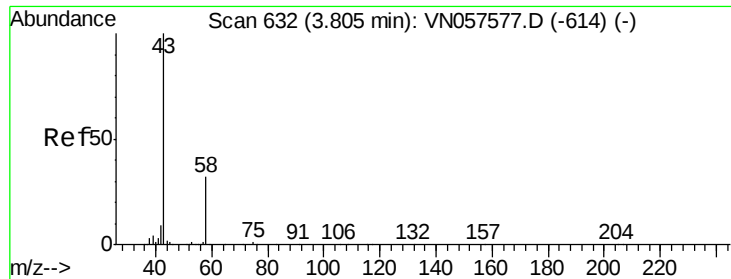
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#14
Acrylonitrile
Concen: 18.093 ug/l
RT: 4.98 min Scan# 996
Delta R.T. 0.00 min
Lab File: VN057576.D
Acq: 30 Aug 2019 9:08

Tgt Ion: 53 Resp: 41272
Ion Ratio Lower Upper
53 100
52 37.0 40.6 122.0#
51 34.5 8.3 24.9#





#15

Acetone

Concen: 23.447 ug/l

RT: 3.81 min Scan# 632

Delta R.T. 0.00 min

Lab File: VN057576.D

Acq: 30 Aug 2019 9:08

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 58 Resp: 25260

Ion Ratio Lower Upper

58 100

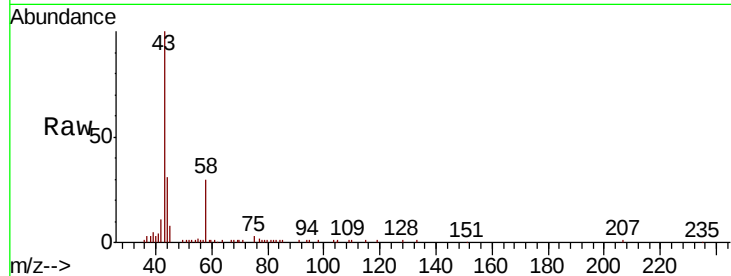
43 317.9 252.8 379.2

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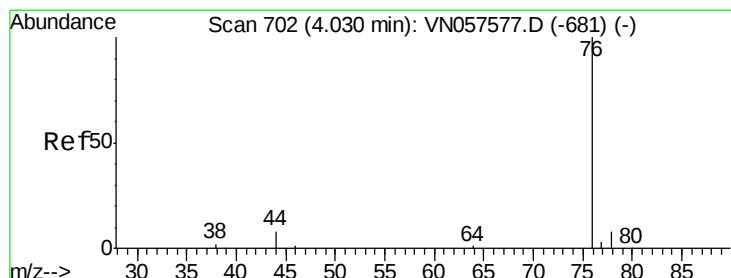
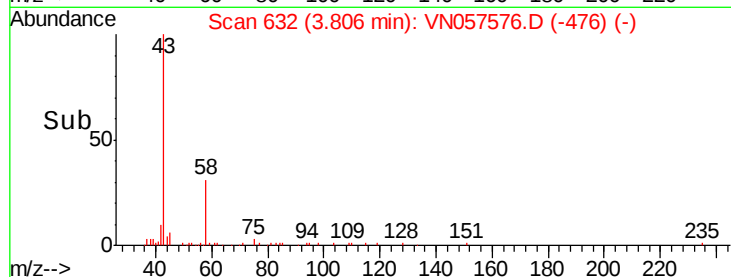
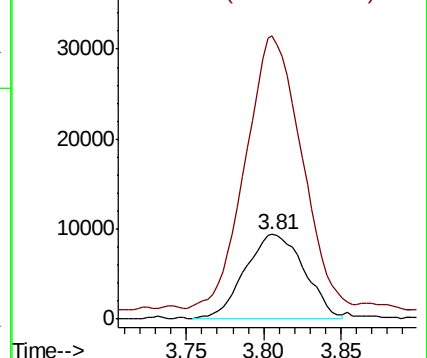
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Abundance Ion 58.00 (57.70 to 58.70): VN0

Ion 43.00 (42.70 to 43.70): VN0



#16

Carbon Disulfide

Concen: 3.501 ug/l

RT: 4.03 min Scan# 702

Delta R.T. 0.00 min

Lab File: VN057576.D

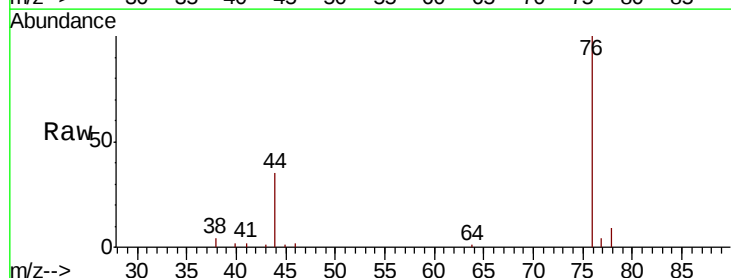
Acq: 30 Aug 2019 9:08

Tgt Ion: 76 Resp: 40398

Ion Ratio Lower Upper

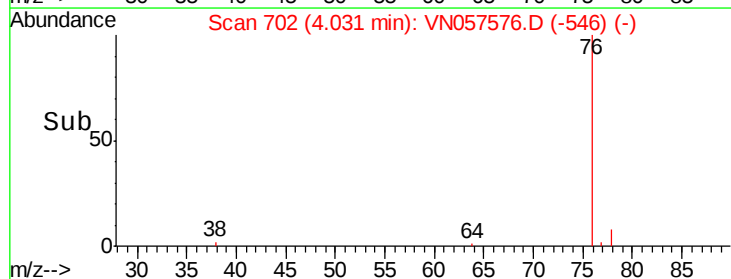
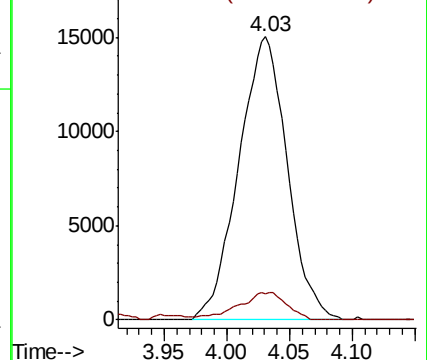
76 100

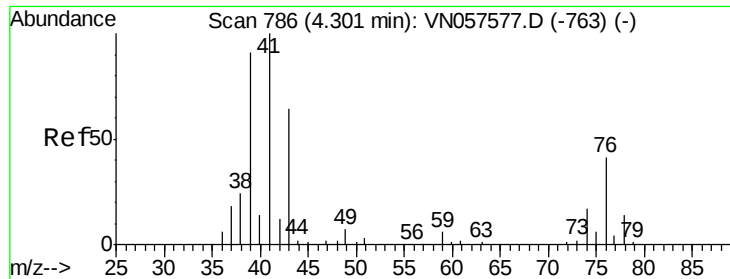
78 9.3 6.7 10.1



Abundance Ion 76.00 (75.70 to 76.70): VN0

Ion 78.00 (77.70 to 78.70): VN0





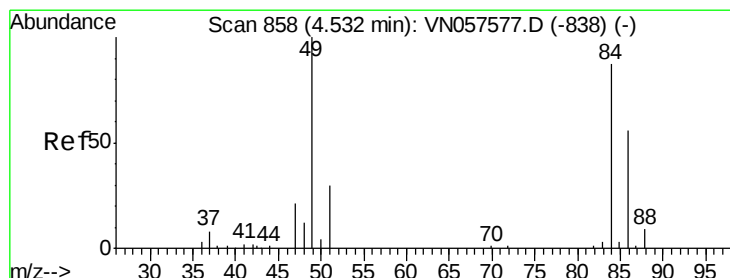
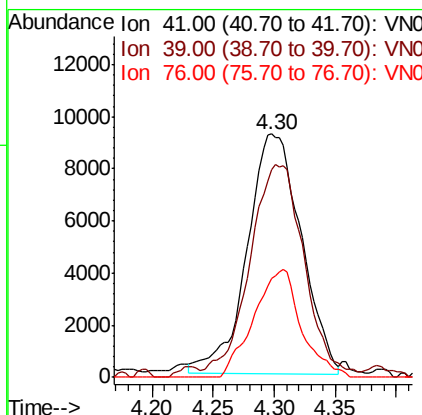
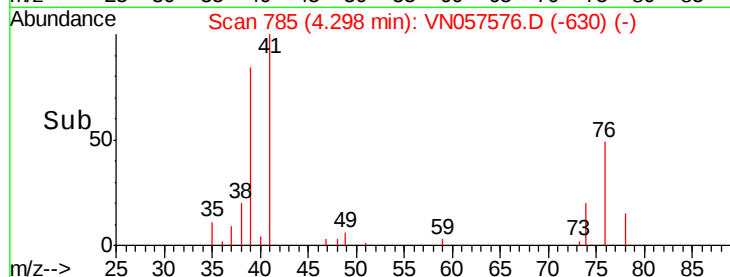
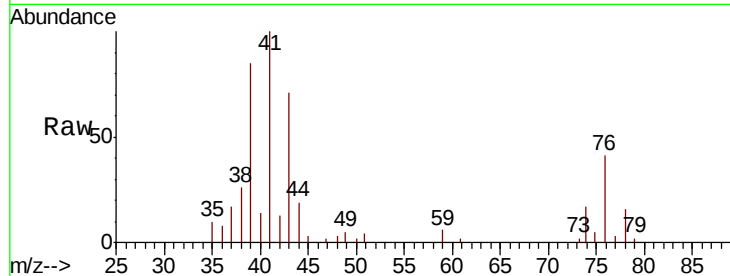
#17
 Allyl chloride
 Concen: 3.245 ug/l
 RT: 4.30 min Scan# 785
 Delta R.T. -0.00 min
 Lab File: VN057576.D
 Acq: 30 Aug 2019 9:08

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tgt Ion:	41	Resp:	28297
Ion	Ratio	Lower	Upper
41	100		
39	84.6	44.6	134.0
76	42.6	19.8	59.3

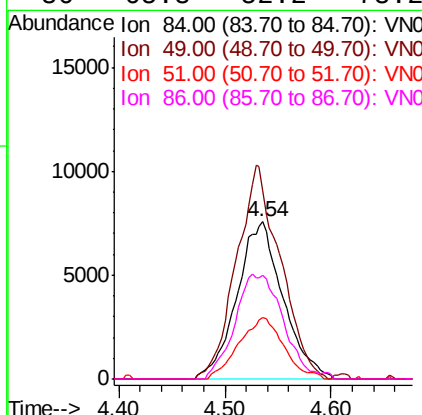
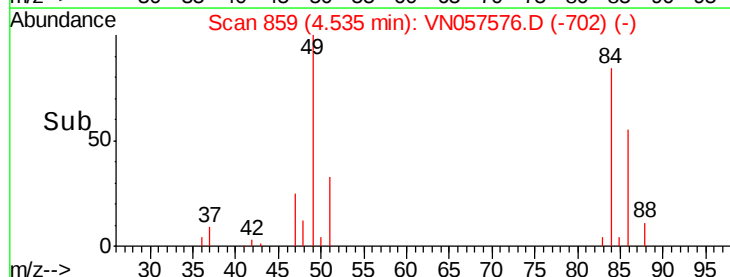
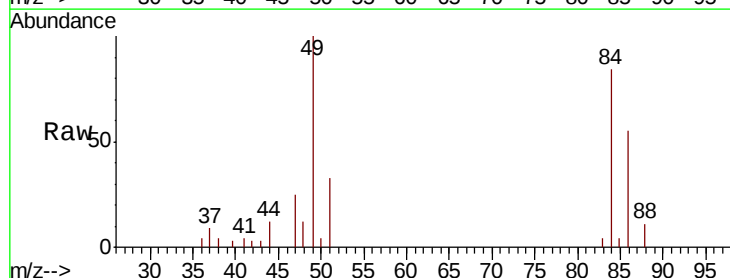
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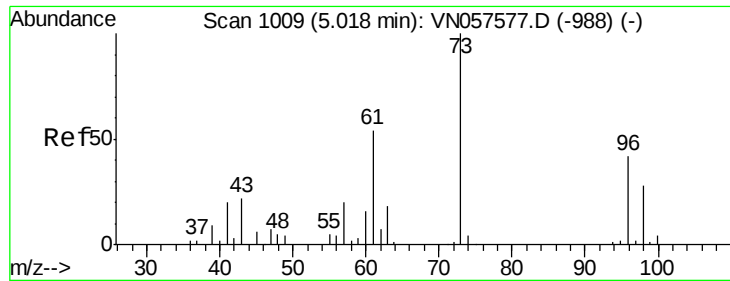
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#18
 Methylene Chloride
 Concen: 4.584 ug/l m
 RT: 4.54 min Scan# 859
 Delta R.T. 0.00 min
 Lab File: VN057576.D
 Acq: 30 Aug 2019 9:08

Tgt Ion:	84	Resp:	22783
Ion	Ratio	Lower	Upper
84	100		
49	119.4	92.4	138.6
51	39.4	27.9	41.9
86	65.8	52.2	78.2





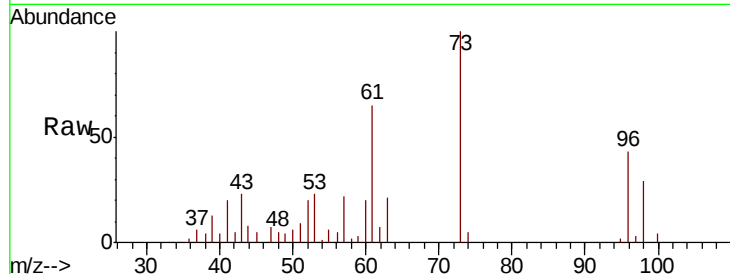
#19
trans-1,2-Dichloroethene
Concen: 4.677 ug/l
RT: 5.01 min Scan# 1008
Delta R.T. -0.00 min
Lab File: VN057576.D
Acq: 30 Aug 2019 9:08

Instrument :
MSVOA_N
ClientSampled :
VSTDIC005

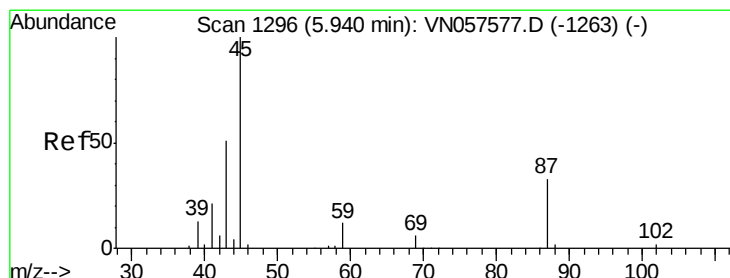
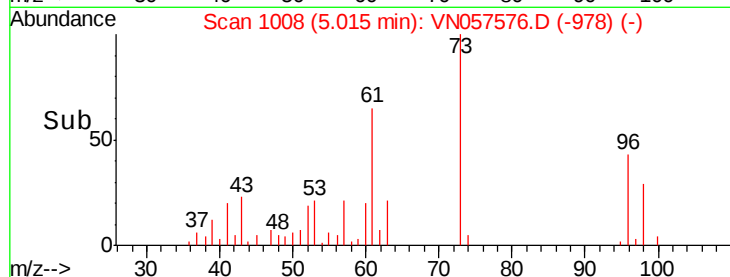
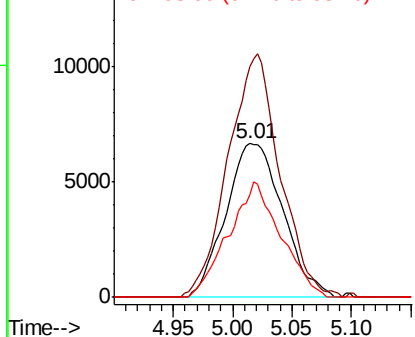
Tgt Ion	Ratio	Lower	Upper
96	100		
61	147.4	102.6	153.8
98	67.4	52.6	79.0

Manual Integrations
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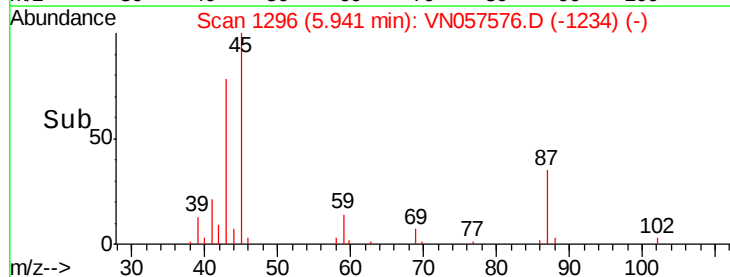
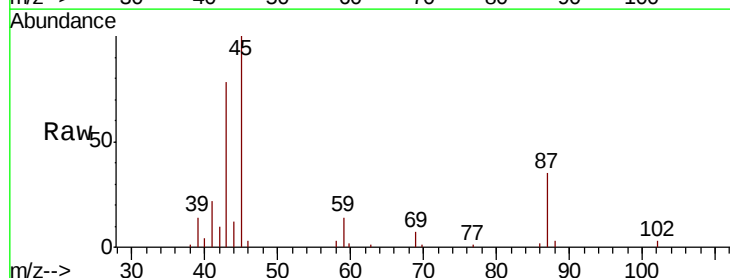
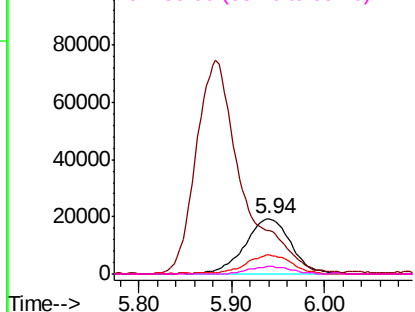
Abundance Ion 96.00 (95.70 to 96.70): VN057577.D (-988) (-)

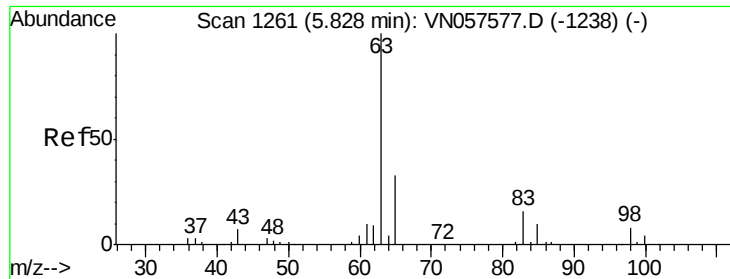


#20
Diisopropyl ether
Concen: 3.483 ug/l
RT: 5.94 min Scan# 1296
Delta R.T. 0.00 min
Lab File: VN057576.D
Acq: 30 Aug 2019 9:08

Tgt Ion	Ratio	Lower	Upper
45	100		
43	75.4	51.9	77.9
87	35.3	27.3	40.9
59	14.3	9.6	14.4

Abundance Ion 45.00 (44.70 to 45.70): VN057577.D (-1263) (-)





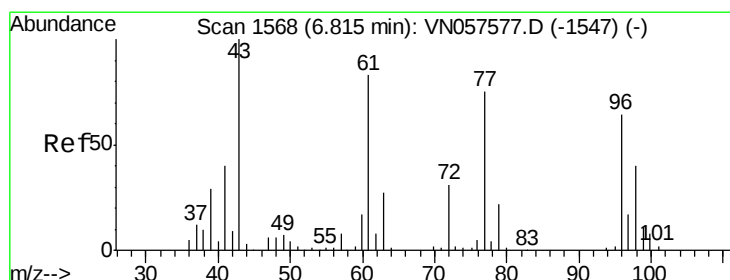
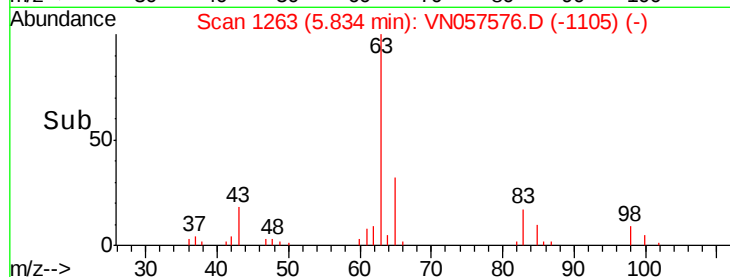
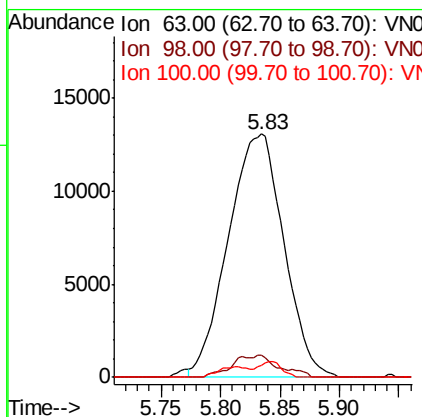
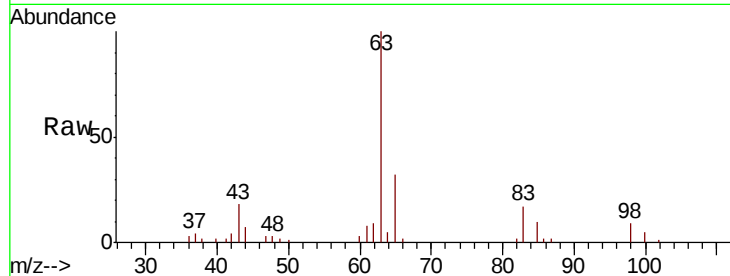
#21
 1,1-Dichloroethane
 Concen: 4.207 ug/l
 RT: 5.83 min Scan# 1263
 Delta R.T. 0.01 min
 Lab File: VN057576.D
 Acq: 30 Aug 2019 9:08

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tgt Ion:	63	Resp:	42241
Ion	Ratio	Lower	Upper
63	100		
98	9.0	3.8	11.2
100	5.1	2.0	6.0

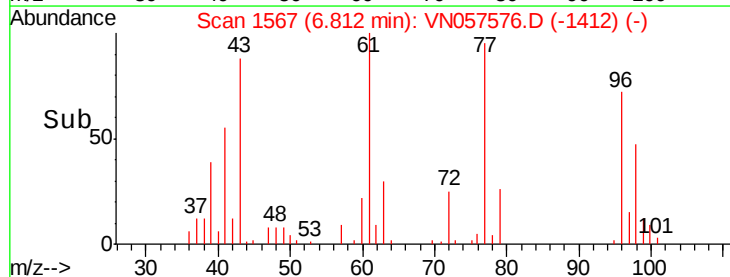
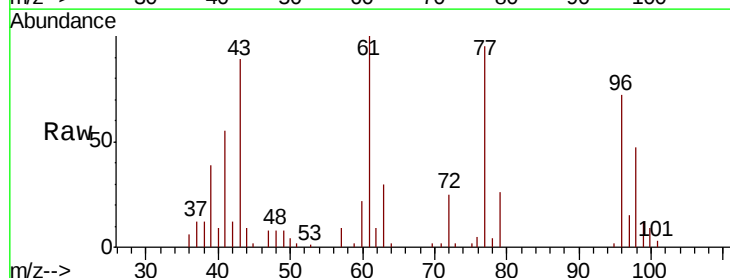
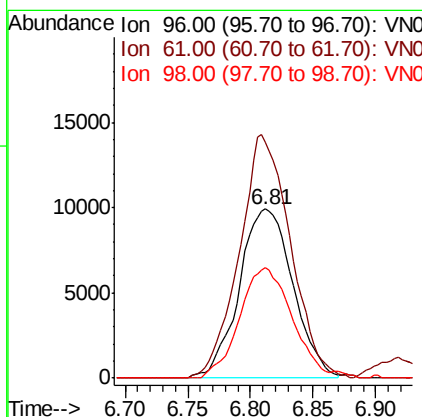
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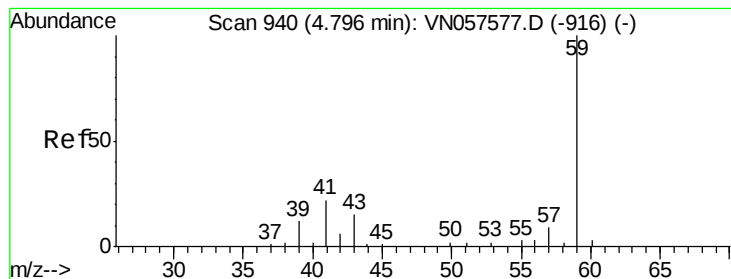
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 8/31/2019 10:00:17 AM



#22
 cis-1,2-Dichloroethene
 Concen: 5.104 ug/l
 RT: 6.81 min Scan# 1567
 Delta R.T. -0.00 min
 Lab File: VN057576.D
 Acq: 30 Aug 2019 9:08

Tgt Ion:	96	Resp:	29546
Ion	Ratio	Lower	Upper
96	100		
61	136.9	110.5	165.7
98	63.3	51.1	76.7





#23

tert-Butyl Alcohol

Concen: 19.787 ug/l

RT: 4.79 min Scan# 938

Delta R.T. -0.01 min

Lab File: VN057576.D

Acq: 30 Aug 2019 9:08

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 59 Resp: 16496

Ion Ratio Lower Upper

59 100

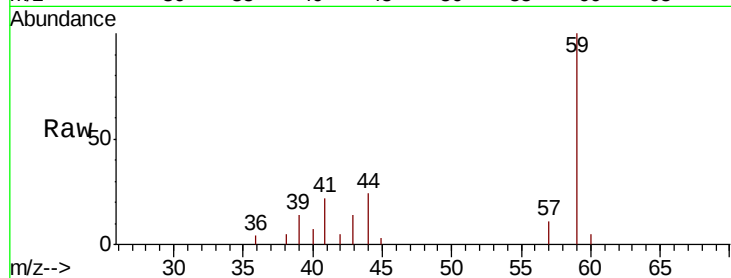
52 0.0 0.1 0.1#

Manual Integrations

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Abundance Ion 59.00 (58.70 to 59.70): VN057577.D (-916) (-)

Ion 52.00 (51.70 to 52.70): VN057577.D (-916) (-)

4.79

6000

5000

4000

3000

2000

1000

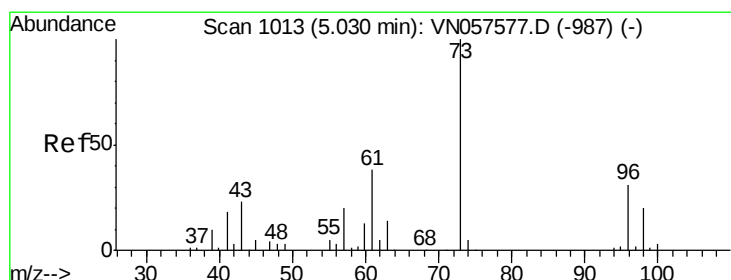
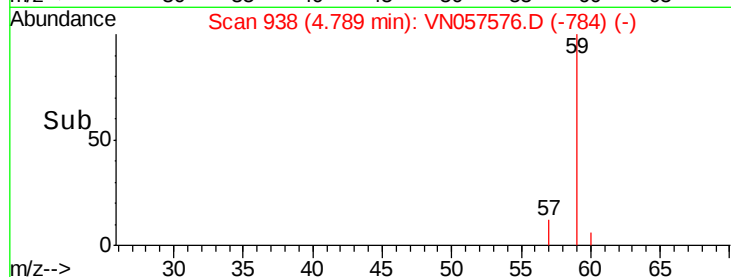
0

4.70

4.80

4.90

Time-->



#24

Methyl tert-Butyl Ether

Concen: 4.607 ug/l

RT: 5.03 min Scan# 1013

Delta R.T. 0.00 min

Lab File: VN057576.D

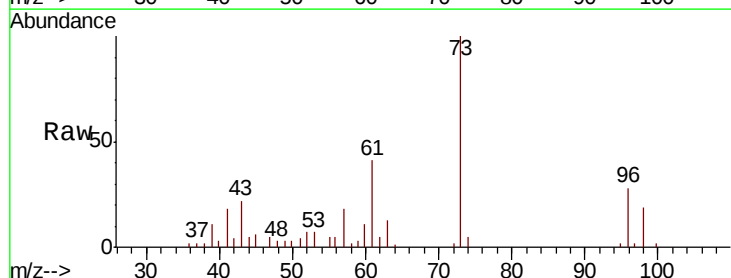
Acq: 30 Aug 2019 9:08

Tgt Ion: 73 Resp: 72088

Ion Ratio Lower Upper

73 100

43 7.8 18.4 27.6#



Abundance Ion 73.00 (72.70 to 73.70): VN057577.D (-987) (-)

Ion 43.00 (42.70 to 43.70): VN057577.D (-987) (-)

5.03

20000

15000

10000

5000

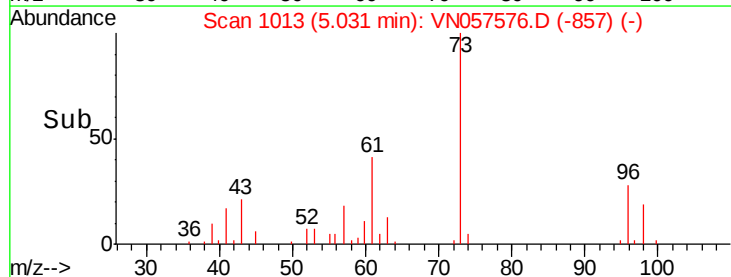
0

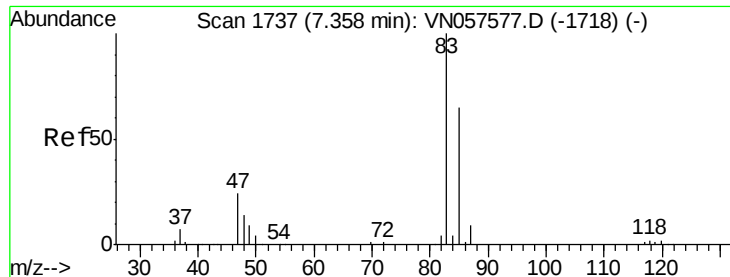
4.90

5.00

5.10

Time-->





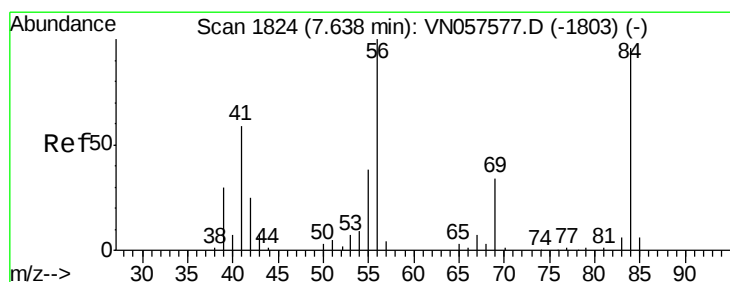
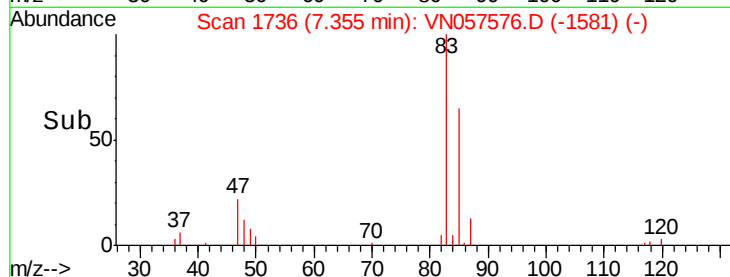
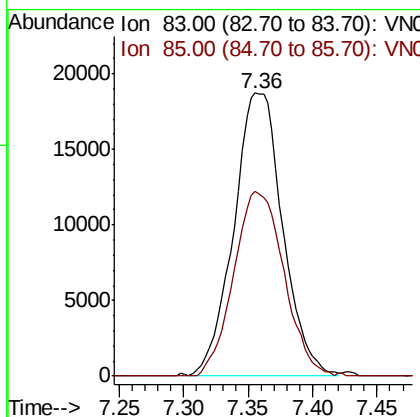
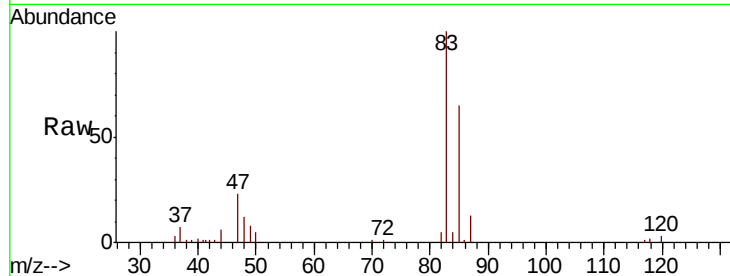
#25
Chloroform
Concen: 4.810 ug/l
RT: 7.36 min Scan# 1736
Delta R.T. -0.00 min
Lab File: VN057576.D
Acq: 30 Aug 2019 9:08

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tgt Ion: 83 Resp: 49569
Ion Ratio Lower Upper
83 100
85 65.1 51.8 77.6

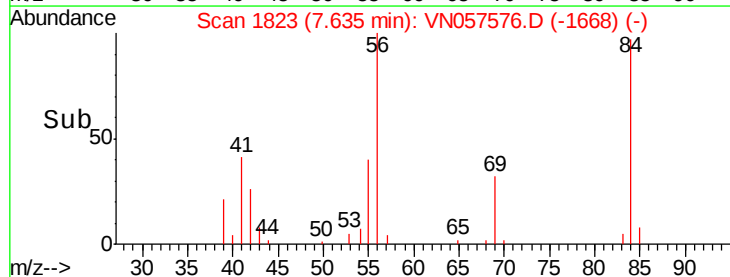
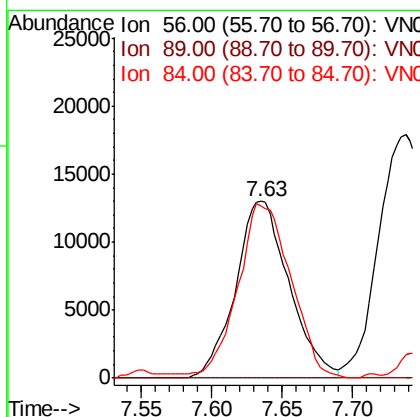
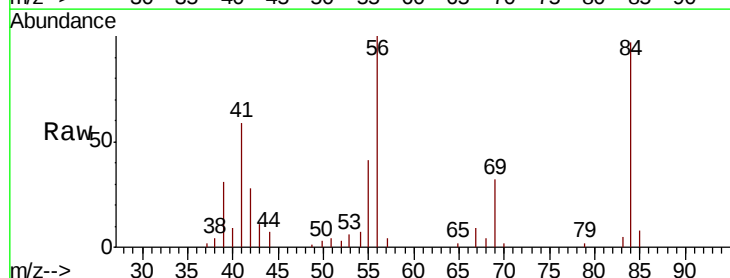
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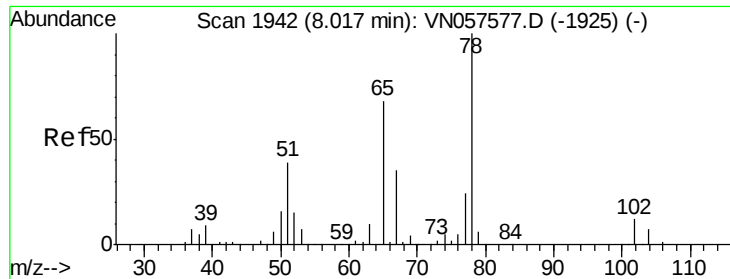
MMDadoda
8/31/2019 10:00:17 AM



#26
Cyclohexane
Concen: 3.887 ug/l
RT: 7.63 min Scan# 1823
Delta R.T. -0.00 min
Lab File: VN057576.D
Acq: 30 Aug 2019 9:08

Tgt Ion: 56 Resp: 34583
Ion Ratio Lower Upper
56 100
89 0.0 0.0 0.0
84 98.2 75.9 113.9





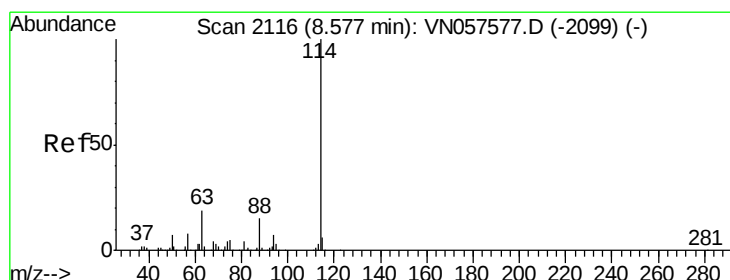
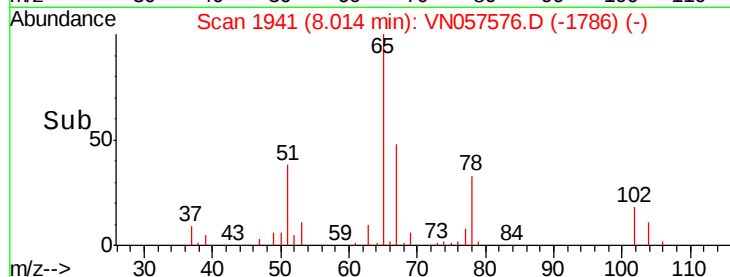
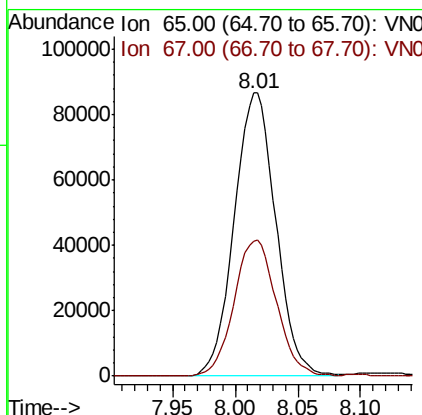
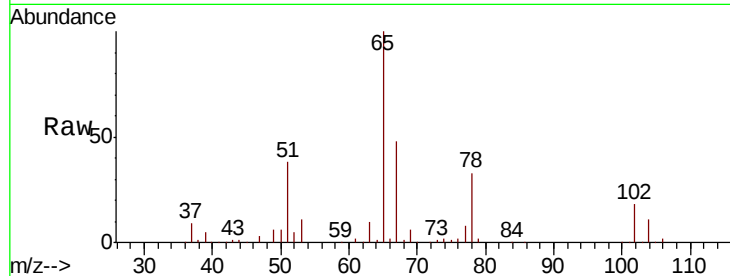
#27
 1,2-Dichloroethane-d4
 Concen: 26.484 ug/l
 RT: 8.01 min Scan# 1941
 Delta R.T. -0.00 min
 Lab File: VN057576.D
 Acq: 30 Aug 2019 9:08

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tgt Ion: 65 Resp: 199700
 Ion Ratio Lower Upper
 65 100
 67 48.9 39.8 59.6

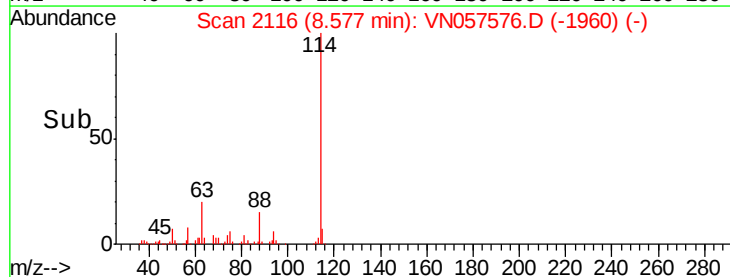
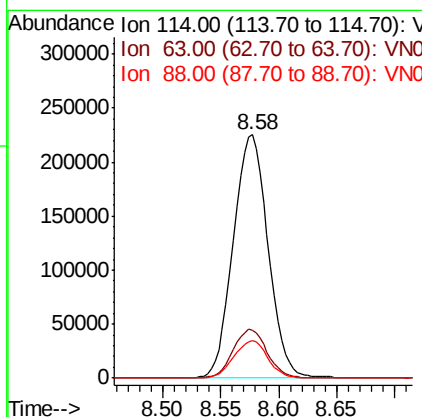
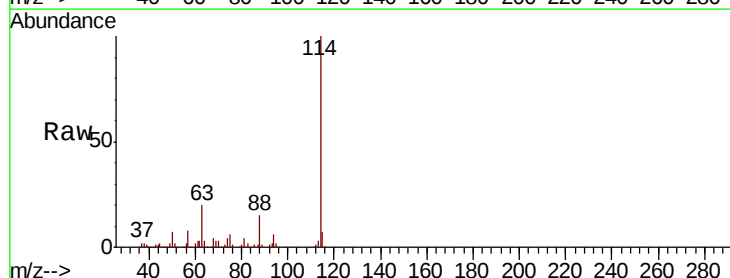
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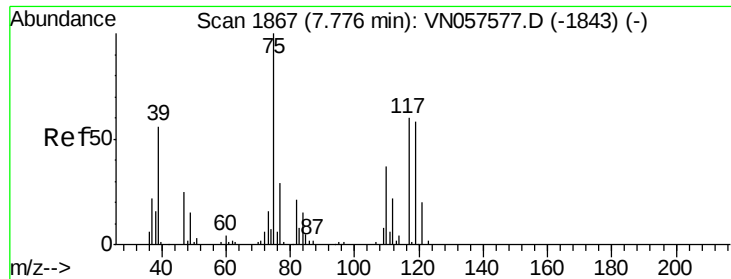
MMDadoda
 8/31/2019 10:00:17 AM



#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 8.58 min Scan# 2116
 Delta R.T. 0.00 min
 Lab File: VN057576.D
 Acq: 30 Aug 2019 9:08

Tgt Ion: 114 Resp: 469404
 Ion Ratio Lower Upper
 114 100
 63 19.7 15.4 23.0
 88 15.0 11.8 17.8





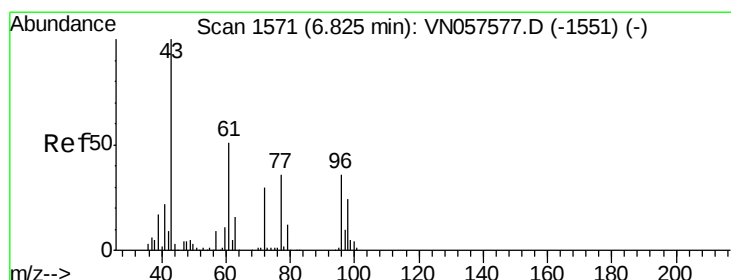
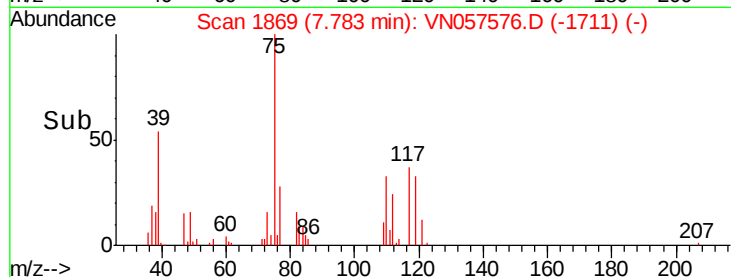
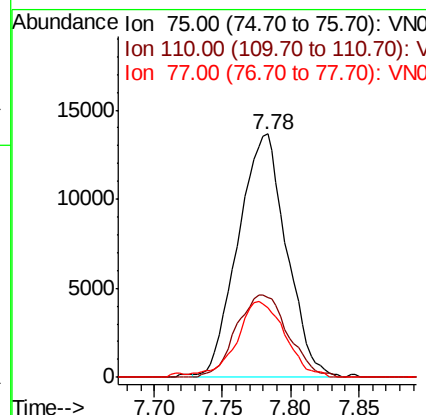
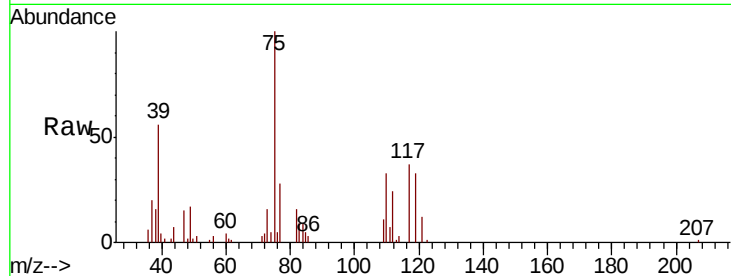
#29
 1,1-Dichloropropene
 Concen: 4.363 ug/l
 RT: 7.78 min Scan# 1869
 Delta R.T. 0.01 min
 Lab File: VN057576.D
 Acq: 30 Aug 2019 9:08

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tgt Ion	Ratio	Resp Lower	Upper
75	100		
110	35.8	0.0	75.4
77	31.1	0.0	61.0

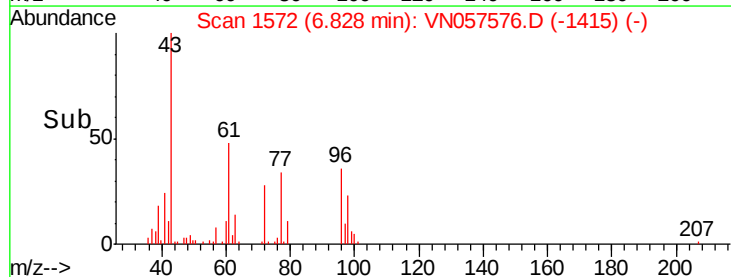
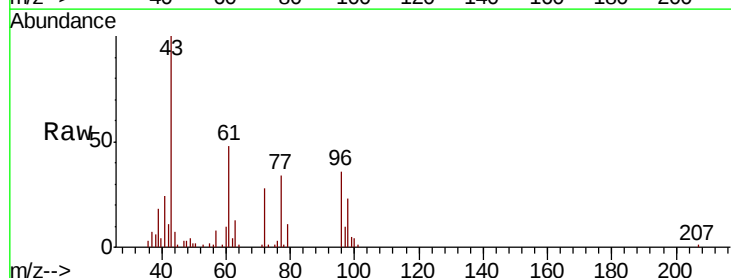
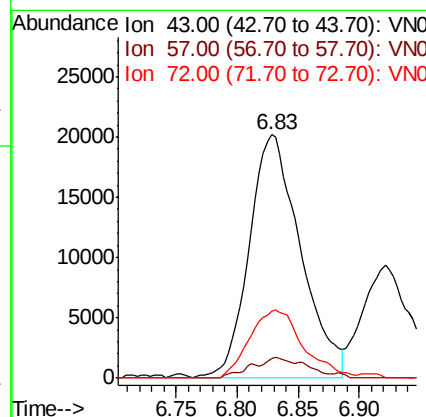
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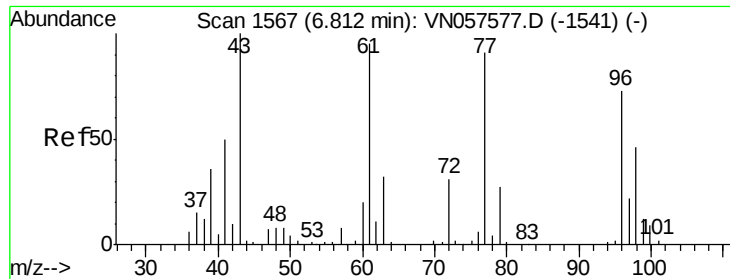
MMDadoda
 8/31/2019 10:00:17 AM



#30
 2-Butanone
 Concen: 16.803 ug/l
 RT: 6.83 min Scan# 1572
 Delta R.T. 0.00 min
 Lab File: VN057576.D
 Acq: 30 Aug 2019 9:08

Tgt Ion	Ratio	Lower	Upper
43	100		
57	1.8	3.5	5.3#
72	29.1	24.6	36.8





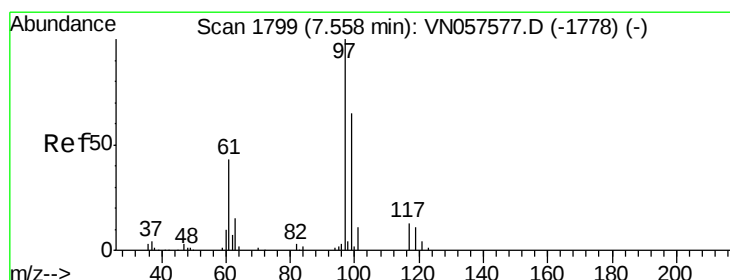
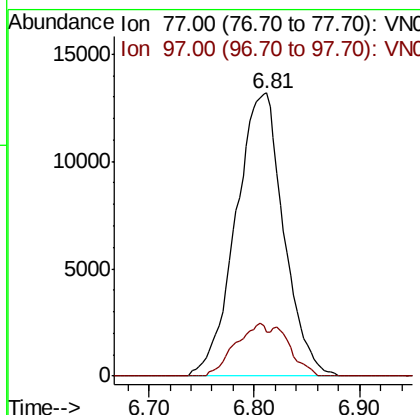
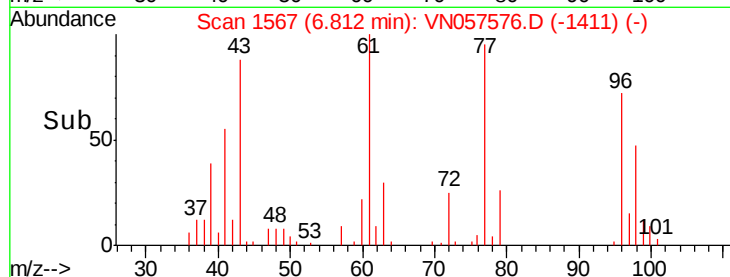
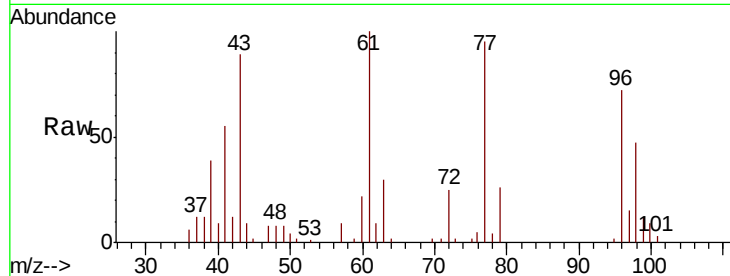
#31
 2,2-Dichloropropane
 Concen: 4.691 ug/l
 RT: 6.81 min Scan# 1567
 Delta R.T. 0.00 min
 Lab File: VN057576.D
 Acq: 30 Aug 2019 9:08

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tgt Ion: 77 Resp: 41519
 Ion Ratio Lower Upper
 77 100
 97 12.1 18.9 28.3#

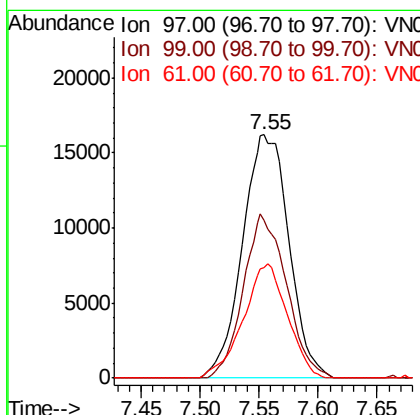
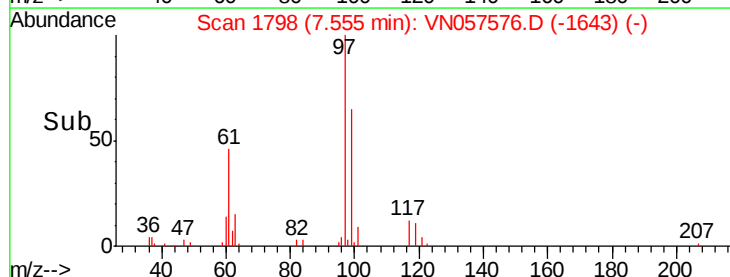
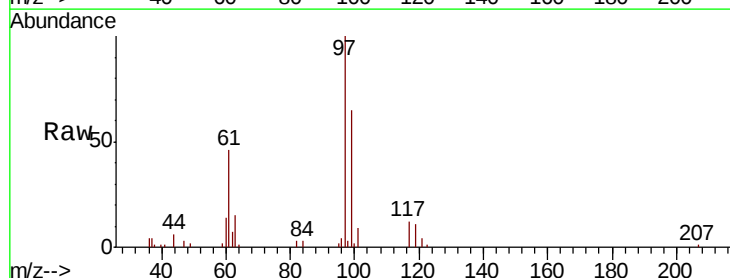
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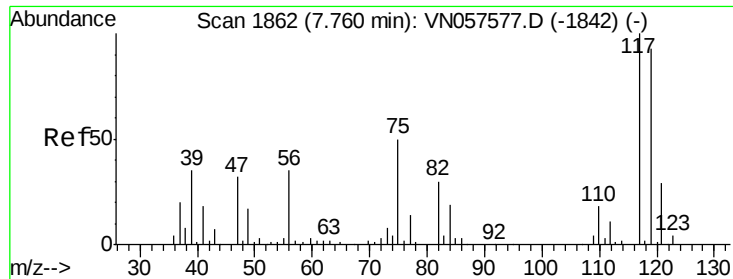
MMDadoda
 8/31/2019 10:00:17 AM



#32
 1,1,1-Trichloroethane
 Concen: 4.952 ug/l m
 RT: 7.55 min Scan# 1798
 Delta R.T. -0.00 min
 Lab File: VN057576.D
 Acq: 30 Aug 2019 9:08

Tgt Ion: 97 Resp: 44845
 Ion Ratio Lower Upper
 97 100
 99 62.6 51.1 76.7
 61 44.6 34.4 51.6





#33

Carbon Tetrachloride

Concen: 4.815 ug/l

RT: 7.76 min Scan# 1862

Delta R.T. 0.00 min

Lab File: VN057576.D

Acq: 30 Aug 2019 9:08

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 117 Resp: 36292

Ion Ratio Lower Upper

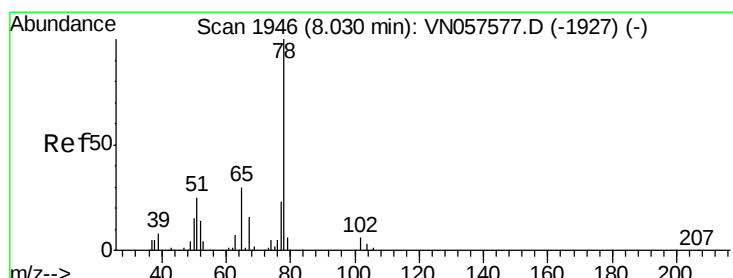
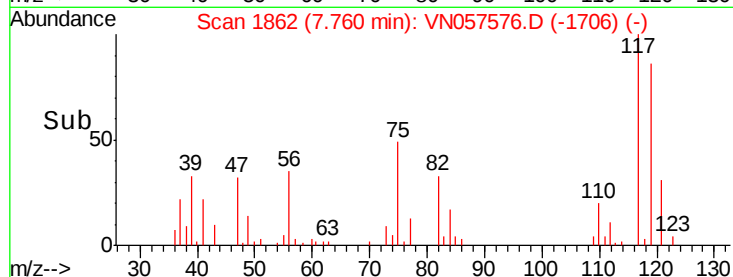
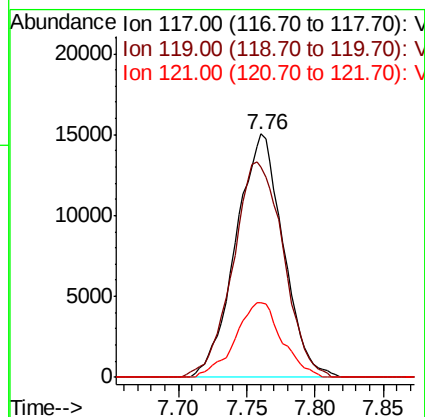
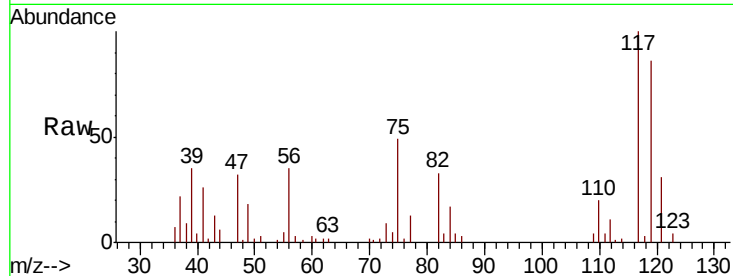
117 100

119 86.2 74.6 111.8

121 30.8 23.5 35.3

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#34

Benzene

Concen: 4.455 ug/l

RT: 8.03 min Scan# 1946

Delta R.T. 0.00 min

Lab File: VN057576.D

Acq: 30 Aug 2019 9:08

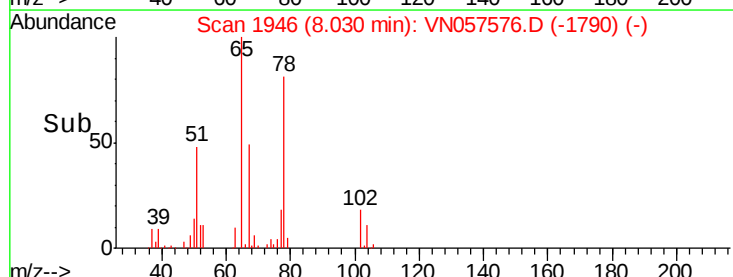
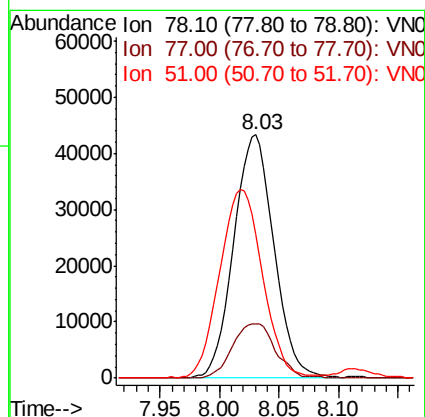
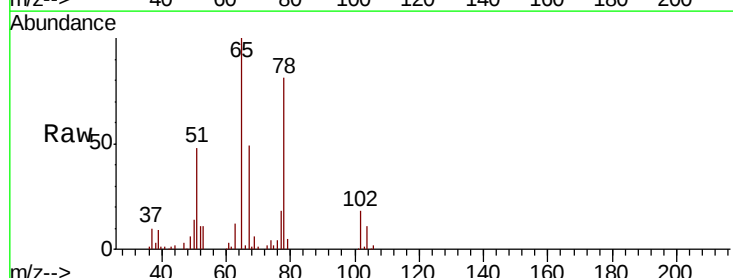
Tgt Ion: 78 Resp: 101349

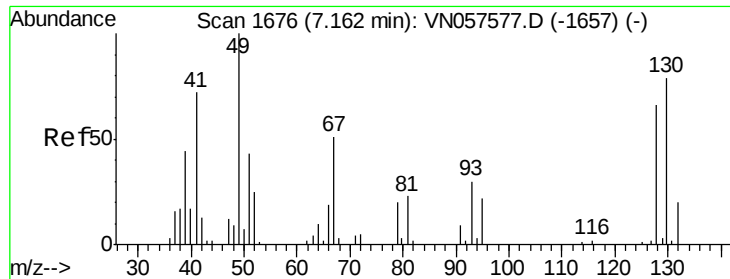
Ion Ratio Lower Upper

78 100

77 22.4 18.2 27.4

51 57.5 20.2 30.4#





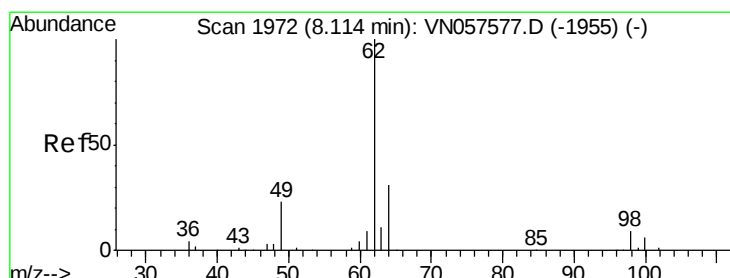
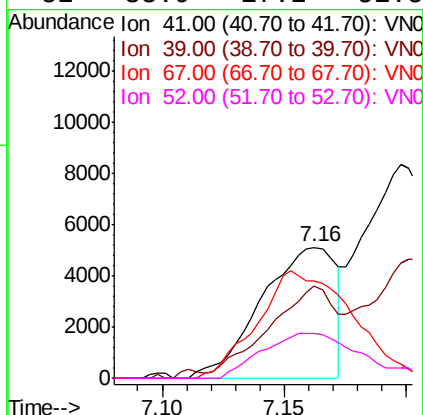
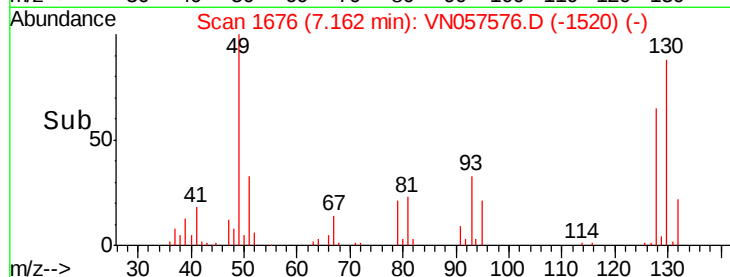
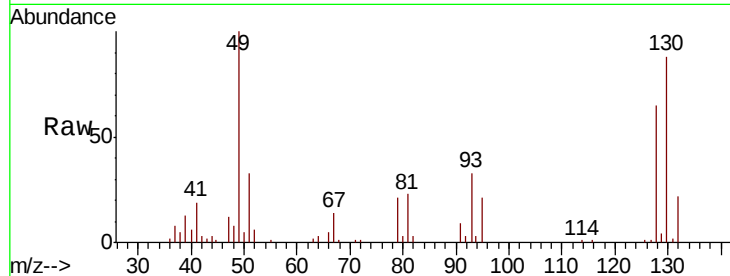
#35
Methacrylonitrile
Concen: 3.102 ug/l
RT: 7.16 min Scan# 1676
Delta R.T. 0.00 min
Lab File: VN057576.D
Acq: 30 Aug 2019 9:08

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tgt Ion	Ratio	Lower	Upper
41	100		
39	63.6	30.4	91.2
67	74.2	35.6	106.8
52	33.9	17.2	51.5

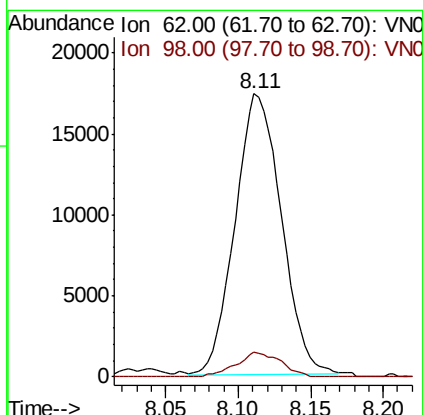
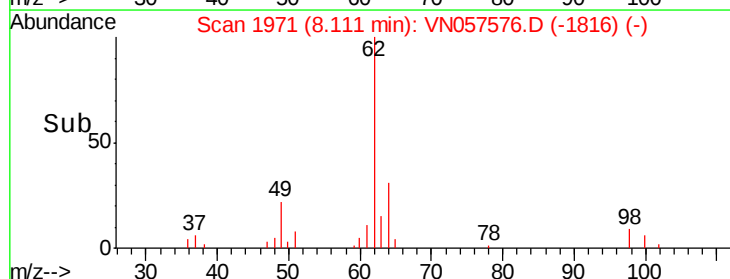
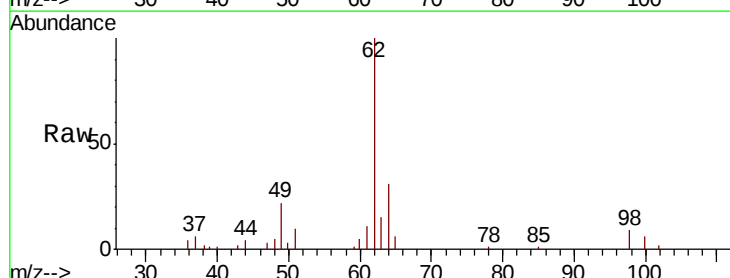
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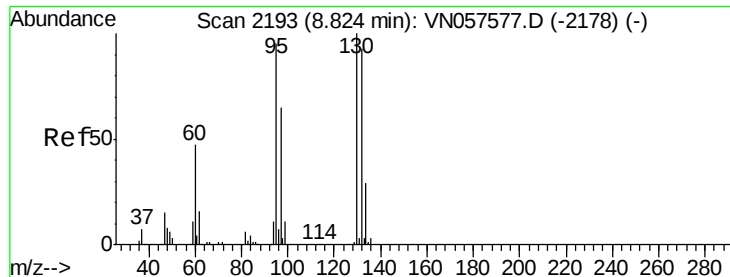
MMDadoda
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#36
1,2-Dichloroethane
Concen: 4.324 ug/l
RT: 8.11 min Scan# 1971
Delta R.T. -0.00 min
Lab File: VN057576.D
Acq: 30 Aug 2019 9:08

Tgt Ion	Ratio	Lower	Upper
62	100		
98	8.4	6.8	10.2





#37

Trichloroethene

Concen: 5.364 ug/l

RT: 8.82 min Scan# 2193

Delta R.T. 0.00 min

Lab File: VN057576.D

Acq: 30 Aug 2019 9:08

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion:130 Resp: 28985

Ion Ratio Lower Upper

130 100

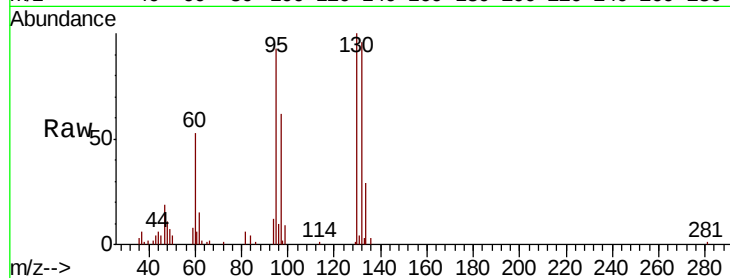
95 93.4 76.2 114.2

Manual Integrations

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Abundance Ion 129.90 (129.60 to 130.60): VN057577.D (-2178) (-)

Ion 94.90 (94.60 to 95.60): VN057577.D (-2178) (-)

8.82

15000

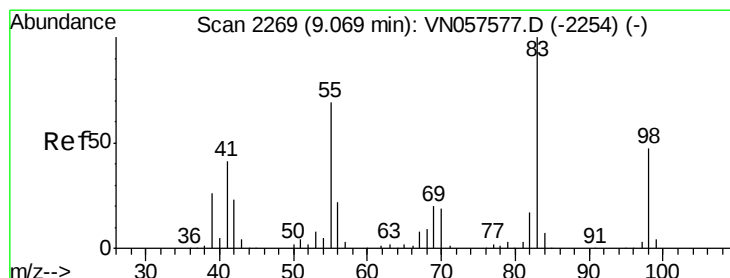
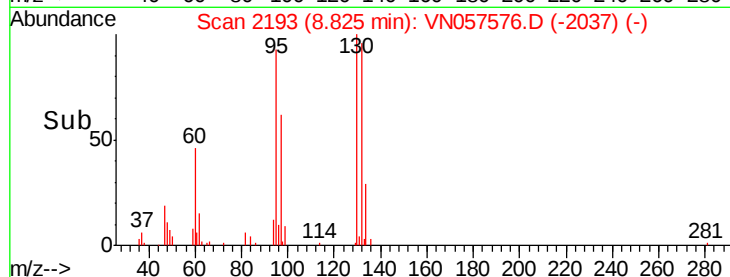
10000

5000

0

8.75 8.80 8.85 8.90

Time-->



#38

Methylcyclohexane

Concen: 4.256 ug/l

RT: 9.07 min Scan# 2269

Delta R.T. 0.00 min

Lab File: VN057576.D

Acq: 30 Aug 2019 9:08

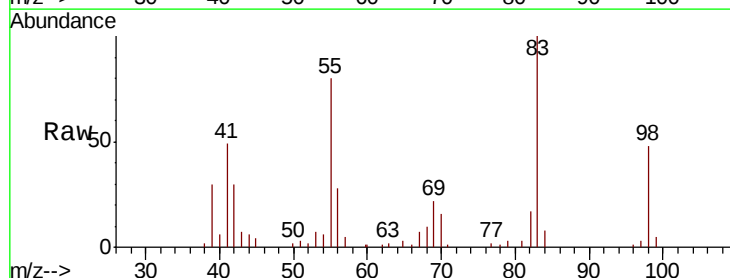
Tgt Ion: 83 Resp: 37581

Ion Ratio Lower Upper

83 100

55 76.9 34.5 103.6

98 50.1 23.4 70.3



Abundance Ion 83.00 (82.70 to 83.70): VN057577.D (-2254) (-)

Ion 55.00 (54.70 to 55.70): VN057577.D (-2254) (-)

Ion 98.00 (97.70 to 98.70): VN057577.D (-2254) (-)

9.07

20000

15000

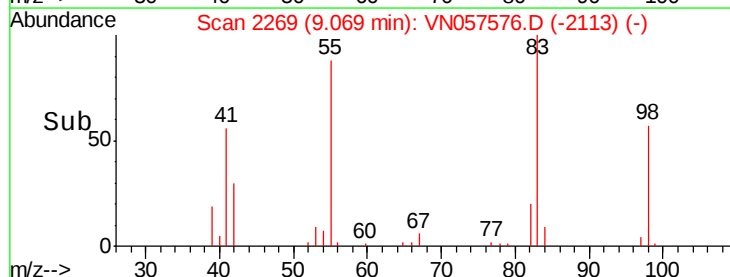
10000

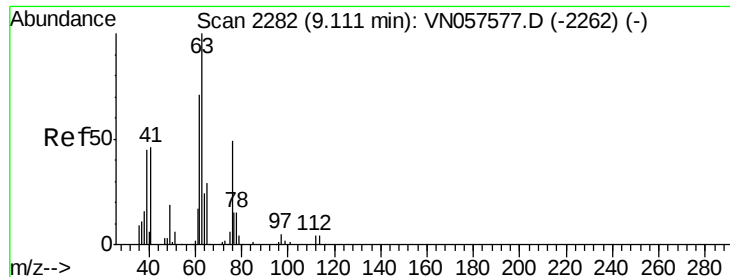
5000

0

9.00 9.05 9.10 9.15

Time-->





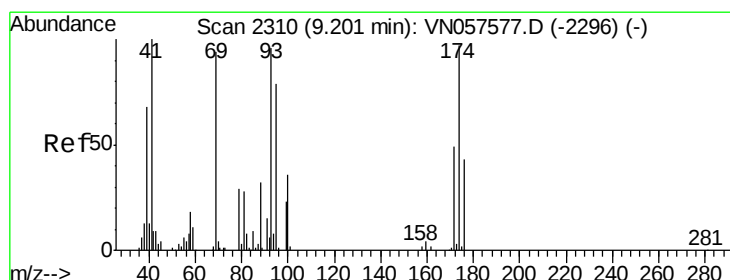
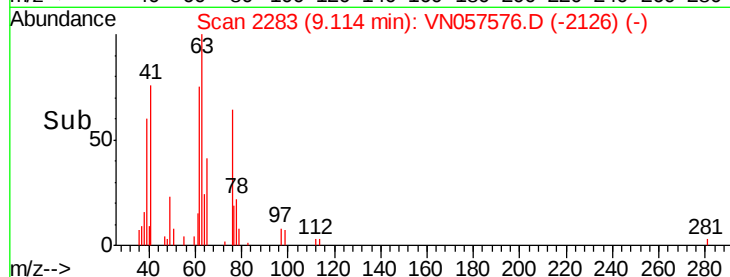
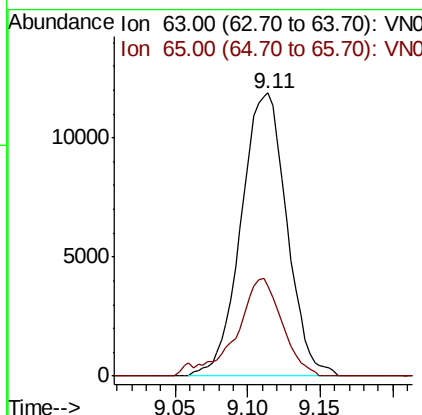
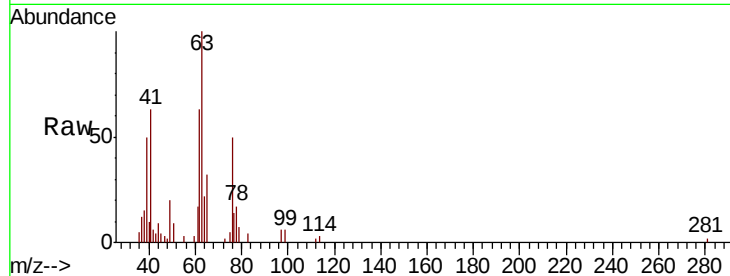
#39
 1,2-Dichloropropane
 Concen: 4.142 ug/l
 RT: 9.11 min Scan# 2283
 Delta R.T. 0.00 min
 Lab File: VN057576.D
 Acq: 30 Aug 2019 9:08

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tgt Ion: 63 Resp: 26121
 Ion Ratio Lower Upper
 63 100
 65 32.0 24.2 36.2

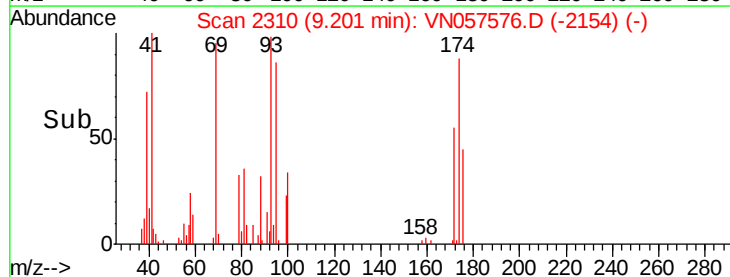
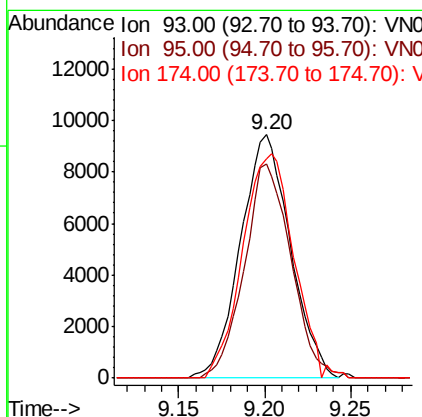
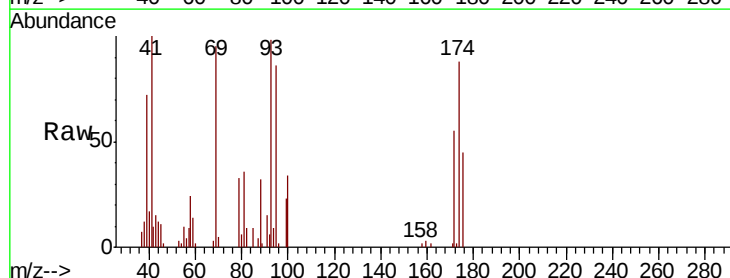
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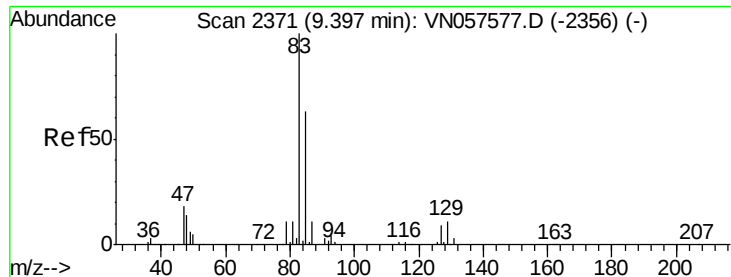
MMDadoda
 8/31/2019 10:00:17 AM



#40
 Dibromomethane
 Concen: 4.733 ug/l
 RT: 9.20 min Scan# 2310
 Delta R.T. 0.00 min
 Lab File: VN057576.D
 Acq: 30 Aug 2019 9:08

Tgt Ion: 93 Resp: 19010
 Ion Ratio Lower Upper
 93 100
 95 82.7 0.0 162.8
 174 93.4 0.0 199.2





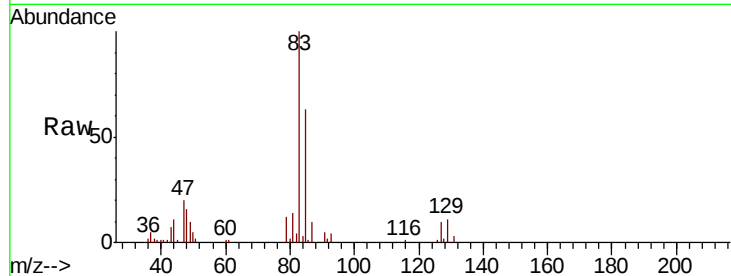
#41
Bromodichloromethane
Concen: 4.264 ug/l
RT: 9.40 min Scan# 2371
Delta R.T. 0.00 min
Lab File: VN057576.D
Acq: 30 Aug 2019 9:08

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

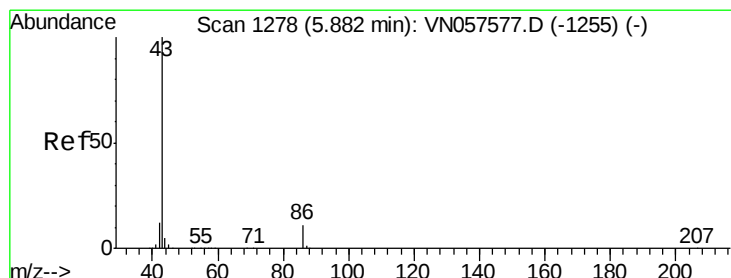
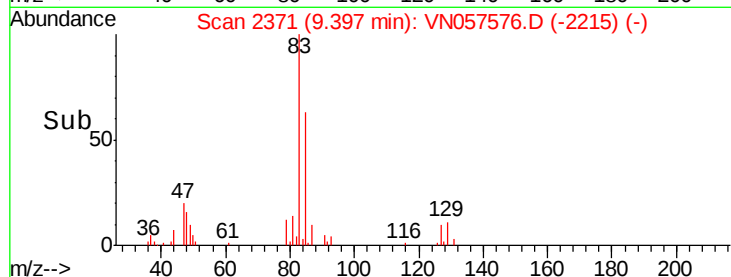
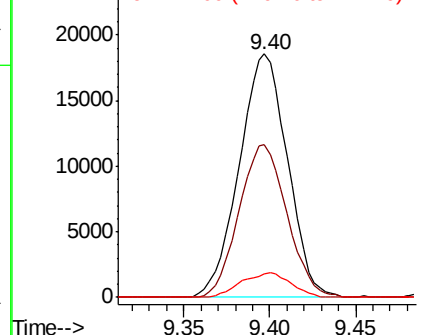
Tgt Ion	Ratio	Lower	Upper
83	100		
85	62.9	50.3	75.5
127	9.6	7.4	11.2

Manual Integrations
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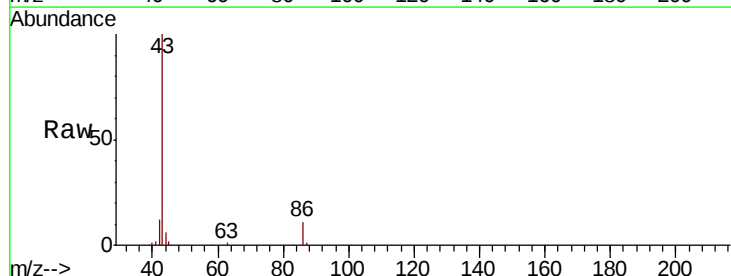


Abundance Ion 83.00 (82.70 to 83.70): VN057577.D (-2356) (-)

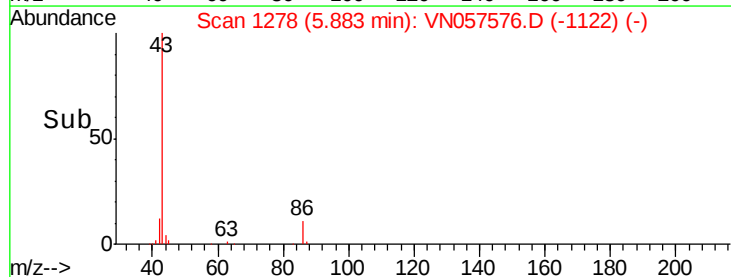
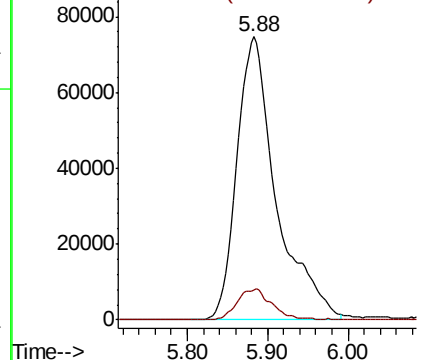


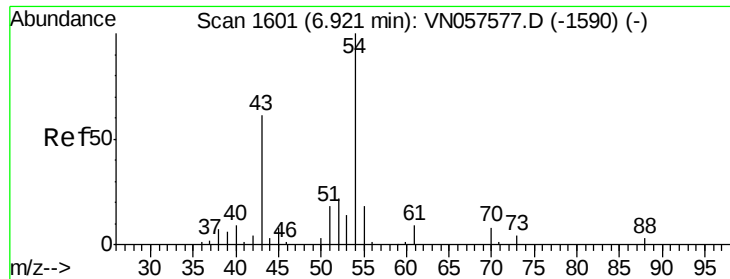
#42
Vinyl Acetate
Concen: 16.263 ug/l m
RT: 5.88 min Scan# 1278
Delta R.T. 0.00 min
Lab File: VN057576.D
Acq: 30 Aug 2019 9:08

Tgt Ion	Ratio	Lower	Upper
43	100		
86	0.2	8.1	12.1#



Abundance Ion 43.00 (42.70 to 43.70): VN057577.D (-1255) (-)





#43

Ethyl Acetate

Concen: 2.887 ug/l

RT: 6.92 min Scan# 1601

Delta R.T. 0.00 min

Lab File: VN057576.D

Acq: 30 Aug 2019 9:08

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 43 Resp: 19793

Ion Ratio Lower Upper

43 100

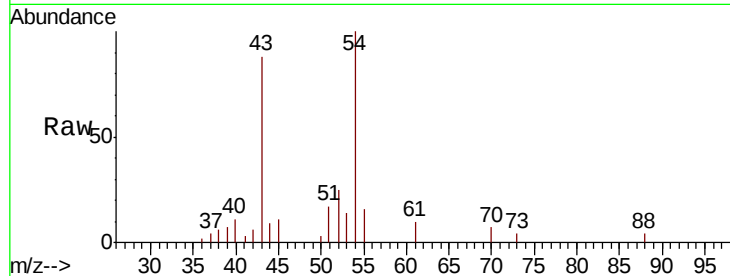
45 4.8 9.9 14.9#

Manual Integrations

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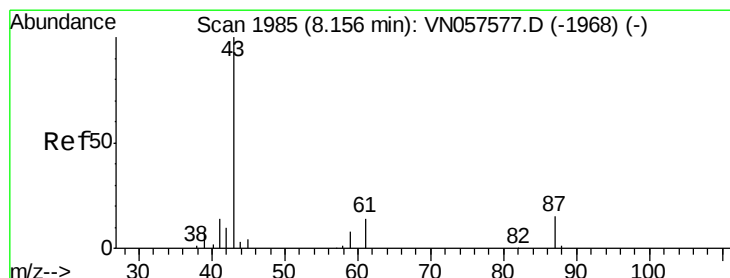
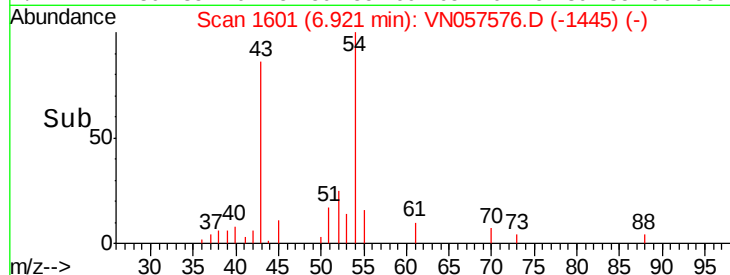
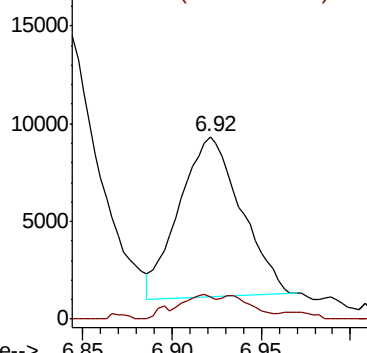
MMDadoda

8/31/2019 10:00:17 AM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 45.00 (44.70 to 45.70): VN0



#44

Isopropyl Acetate

Concen: 3.307 ug/l

RT: 8.16 min Scan# 1986

Delta R.T. 0.00 min

Lab File: VN057576.D

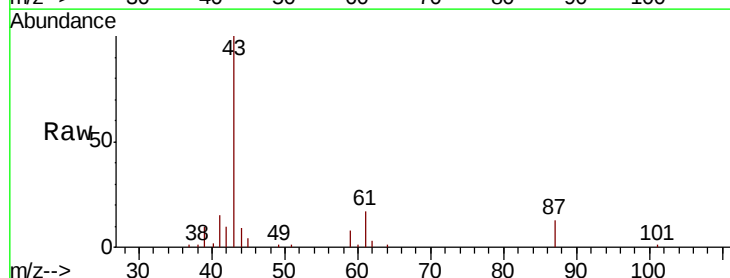
Acq: 30 Aug 2019 9:08

Tgt Ion: 43 Resp: 43486

Ion Ratio Lower Upper

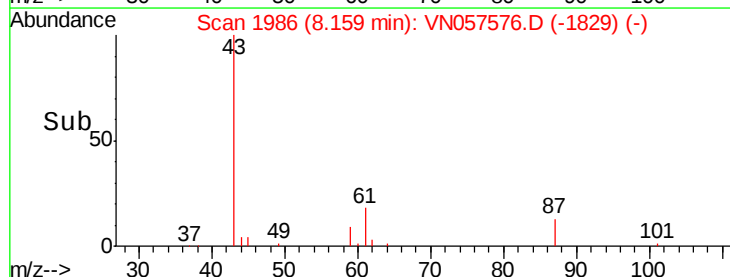
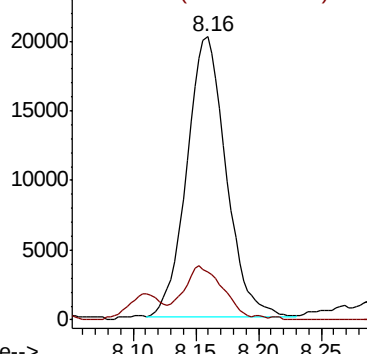
43 100

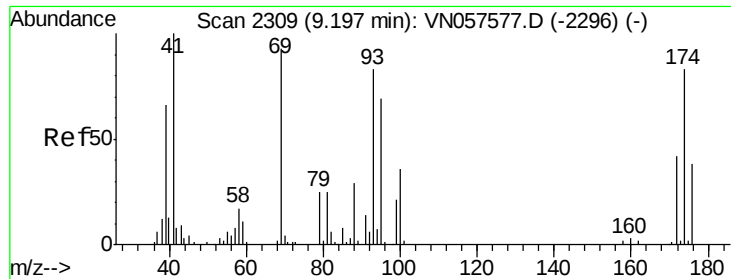
61 19.5 16.0 24.0



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0





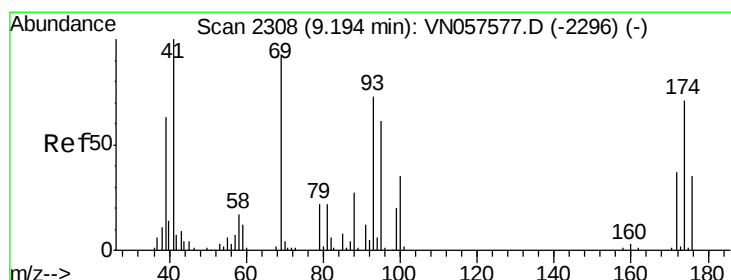
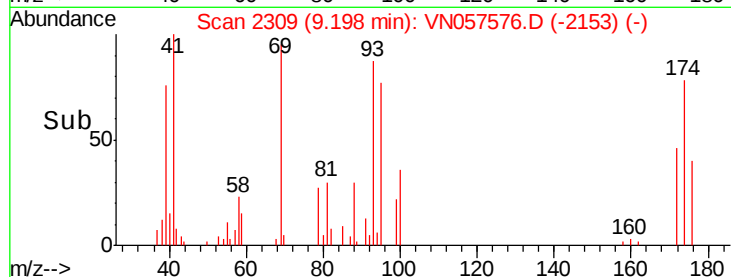
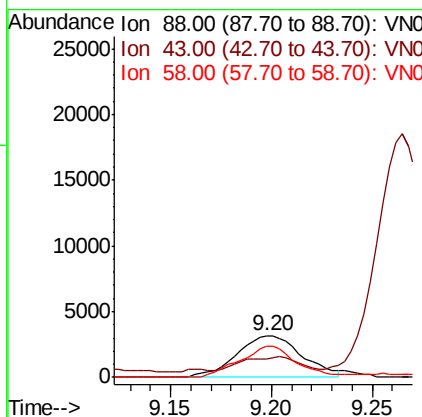
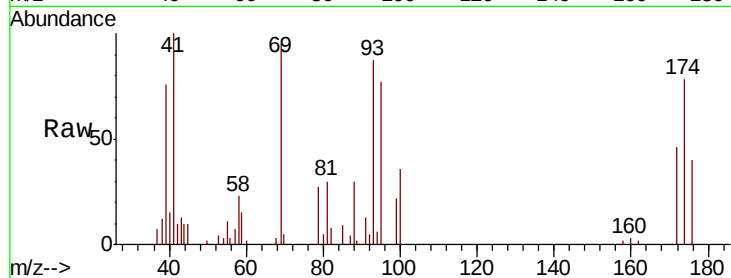
#45
 1,4-Dioxane
 Concen: 85.327 ug/l
 RT: 9.20 min Scan# 2309
 Delta R.T. 0.00 min
 Lab File: VN057576.D
 Acq: 30 Aug 2019 9:08

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tgt Ion	Ratio	Lower	Upper
88	100		
43	12.0	18.2	27.4#
58	65.9	45.0	67.6

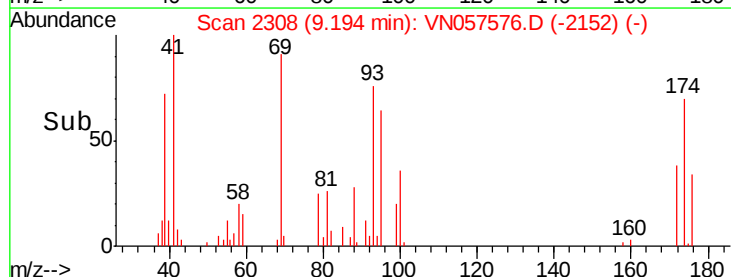
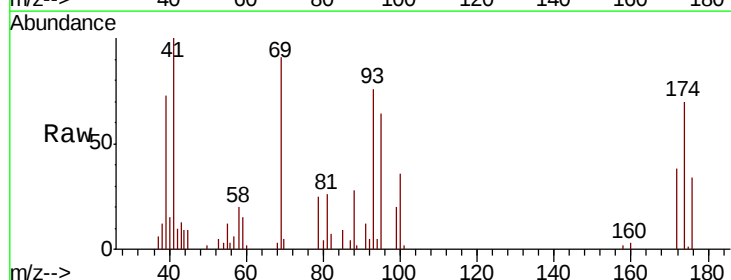
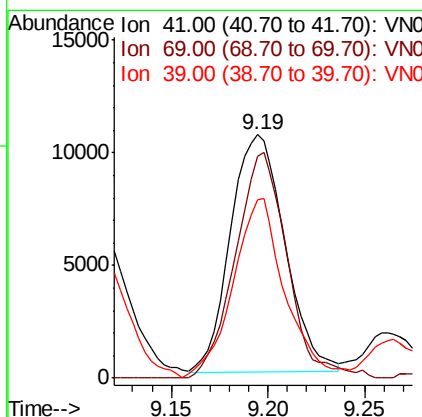
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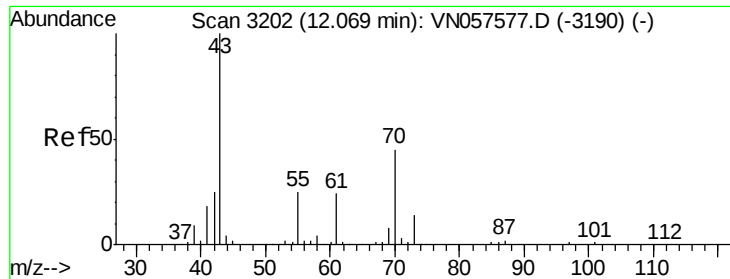
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 8/31/2019 10:00:17 AM



#46
 Methyl methacrylate
 Concen: 3.305 ug/l
 RT: 9.19 min Scan# 2308
 Delta R.T. 0.00 min
 Lab File: VN057576.D
 Acq: 30 Aug 2019 9:08

Tgt Ion	Ratio	Lower	Upper
41	100		
69	93.8	46.4	139.1
39	73.7	31.6	94.8





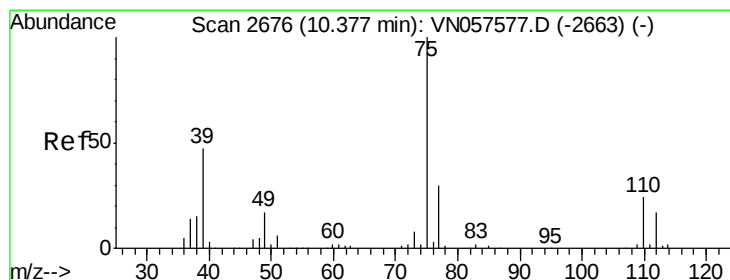
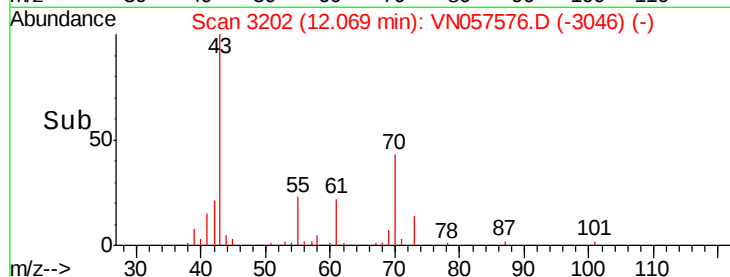
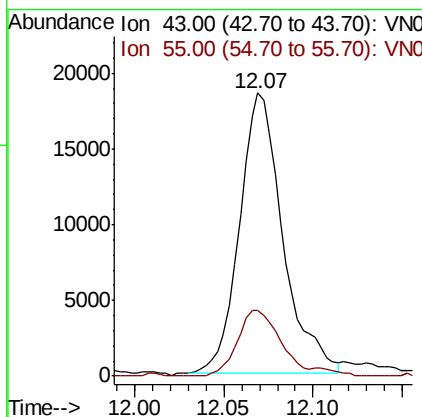
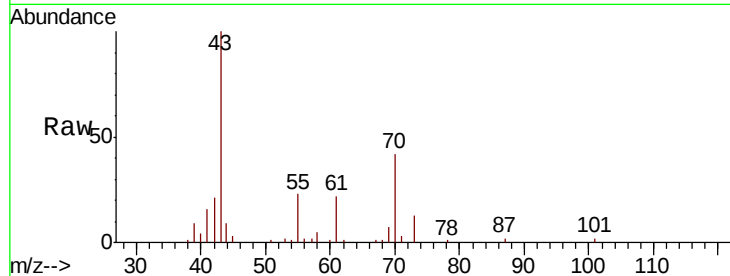
#47
n-amyl Acetate
Concen: 2.902 ug/l
RT: 12.07 min Scan# 3202
Delta R.T. 0.00 min
Lab File: VN057576.D
Acq: 30 Aug 2019 9:08

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tgt Ion	Ratio	Lower	Upper
43	100		
55	23.2	20.2	30.2

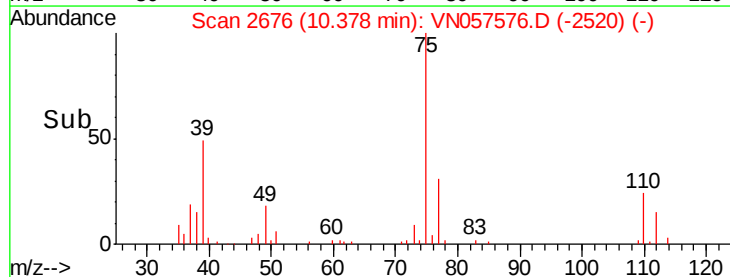
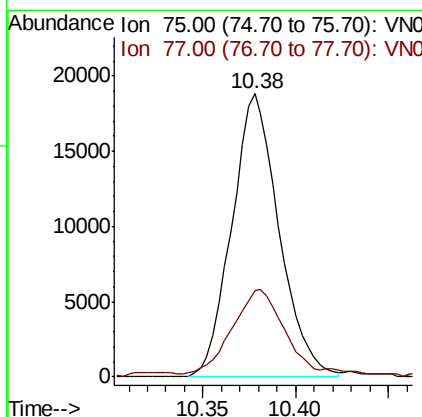
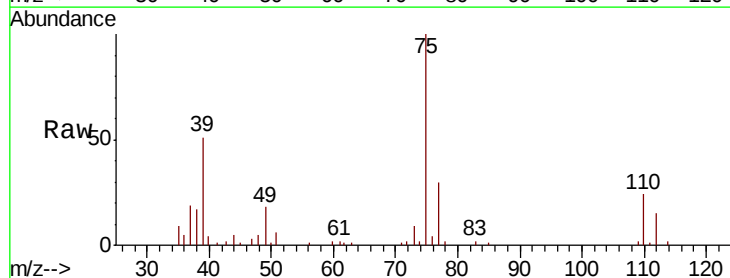
Manual Integrations
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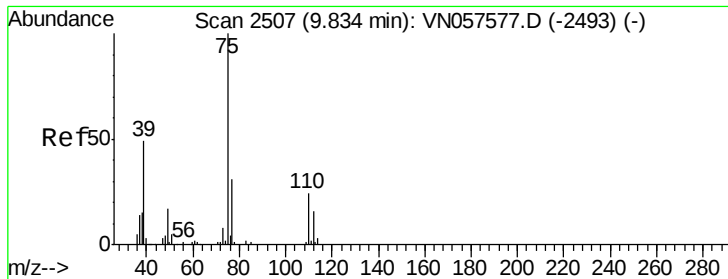
MMDadoda
8/31/2019 10:00:17 AM



#48
t-1,3-Dichloropropene
Concen: 3.756 ug/l
RT: 10.38 min Scan# 2676
Delta R.T. 0.00 min
Lab File: VN057576.D
Acq: 30 Aug 2019 9:08

Tgt Ion	Ratio	Lower	Upper
75	100		
77	28.9	23.8	35.6





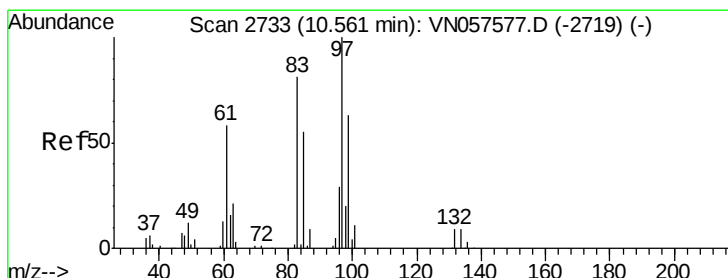
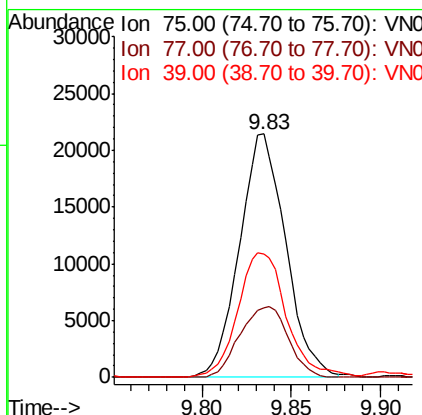
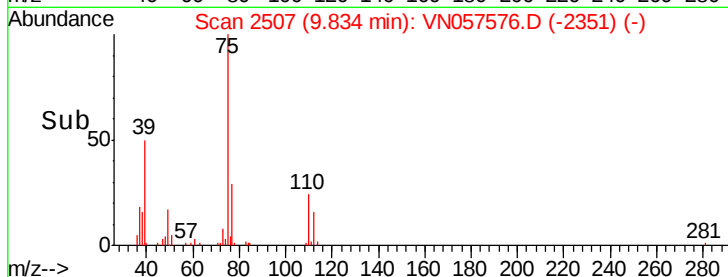
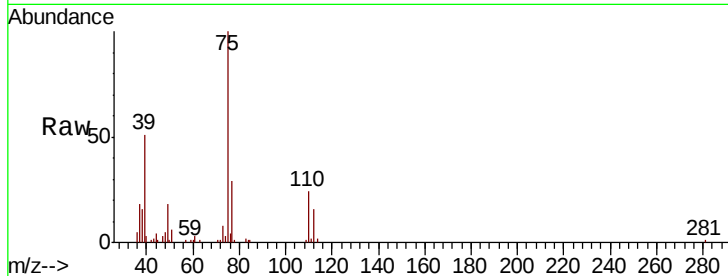
#49
 cis-1,3-Dichloropropene
 Concen: 3.996 ug/l
 RT: 9.83 min Scan# 2507
 Delta R.T. 0.00 min
 Lab File: VN057576.D
 Acq: 30 Aug 2019 9:08

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tgt Ion	Ratio	Lower	Upper
75	100		
77	28.6	25.0	37.4
39	50.8	39.0	58.4

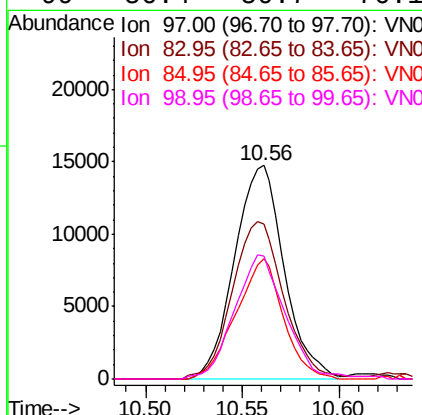
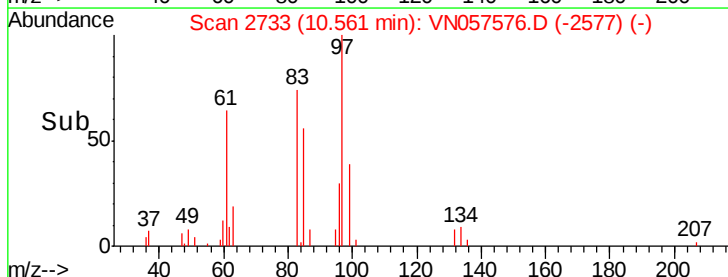
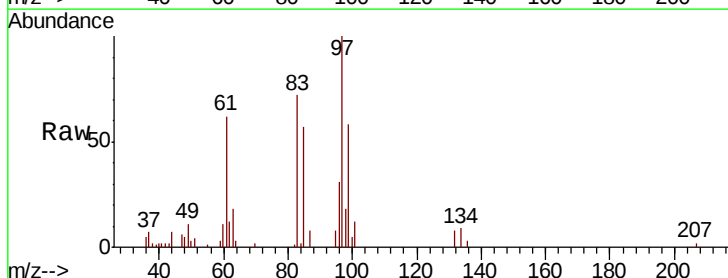
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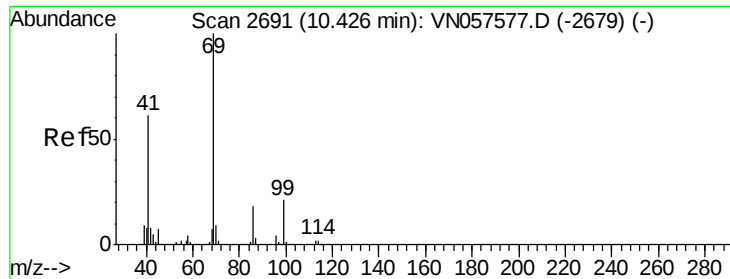
MMDadoda
 8/31/2019 10:00:17 AM



#50
 1,1,2-Trichloroethane
 Concen: 4.975 ug/l
 RT: 10.56 min Scan# 2733
 Delta R.T. 0.00 min
 Lab File: VN057576.D
 Acq: 30 Aug 2019 9:08

Tgt Ion	Ratio	Lower	Upper
97	100		
83	70.7	65.1	97.7
85	56.5	43.7	65.5
99	56.4	50.7	76.1





#51

Ethyl methacrylate

Concen: 3.737 ug/l

RT: 10.43 min Scan# 2691

Delta R.T. 0.00 min

Lab File: VN057576.D

Acq: 30 Aug 2019 9:08

Instrument :

MSVOA_N

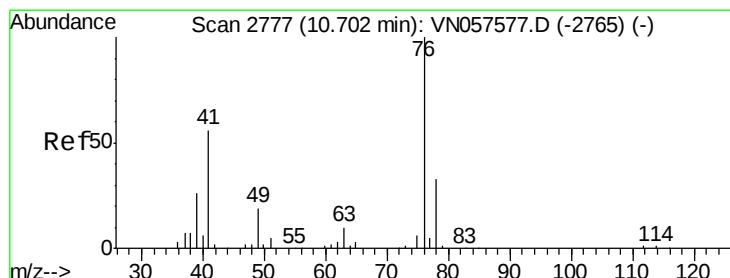
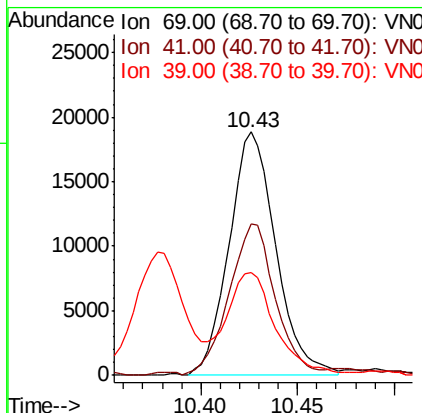
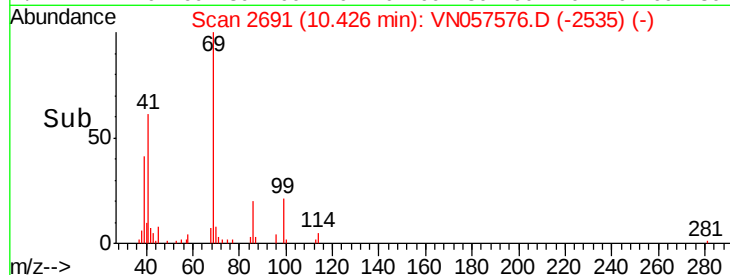
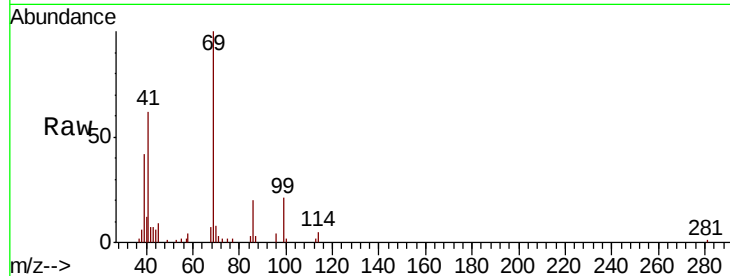
ClientSampled :

VSTDIC005

Tgt Ion:	69	Resp:	31740
Ion	Ratio	Lower	Upper
69	100		
41	61.0	30.6	92.0
39	41.0	22.3	66.9

Manual Integrations
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#52

1,3-Dichloropropane

Concen: 4.316 ug/l

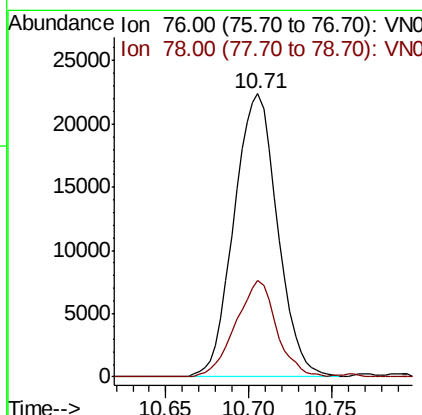
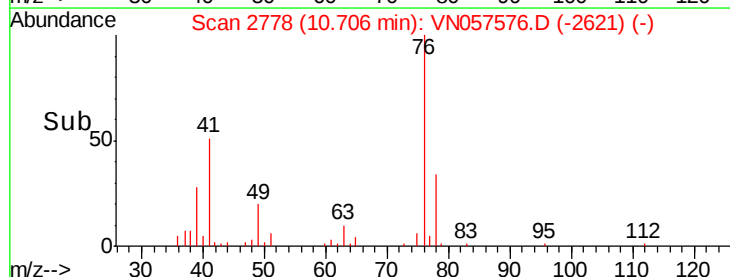
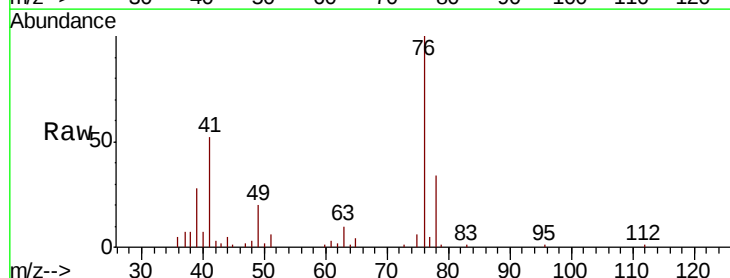
RT: 10.71 min Scan# 2778

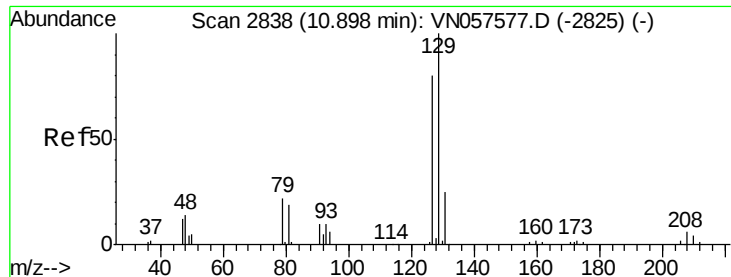
Delta R.T. 0.00 min

Lab File: VN057576.D

Acq: 30 Aug 2019 9:08

Tgt Ion:	76	Resp:	40745
Ion	Ratio	Lower	Upper
76	100		
78	31.9	0.0	67.0





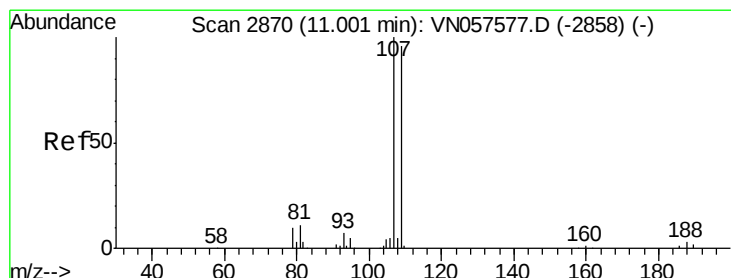
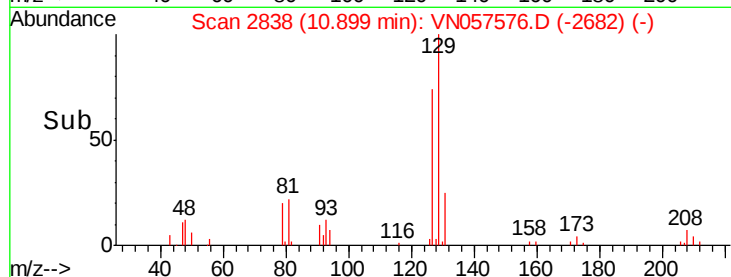
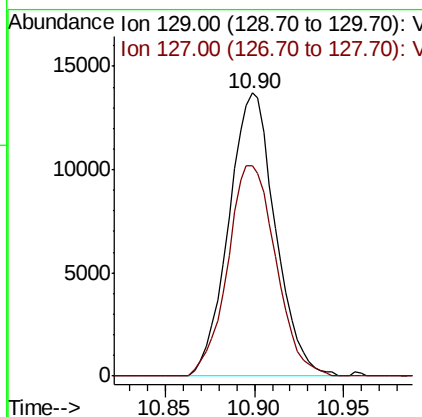
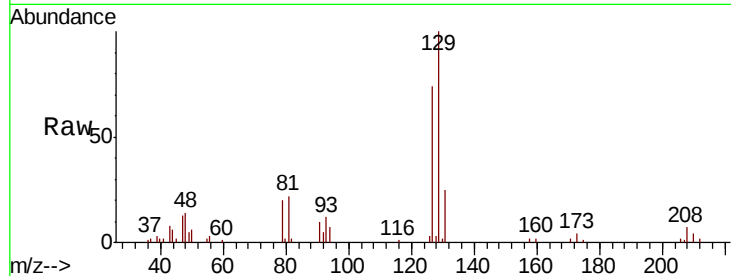
#53
 Dibromochloromethane
 Concen: 4.386 ug/l
 RT: 10.90 min Scan# 2838
 Delta R.T. 0.00 min
 Lab File: VN057576.D
 Acq: 30 Aug 2019 9:08

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tgt Ion:129 Resp: 24917
 Ion Ratio Lower Upper
 129 100
 127 77.0 38.9 116.7

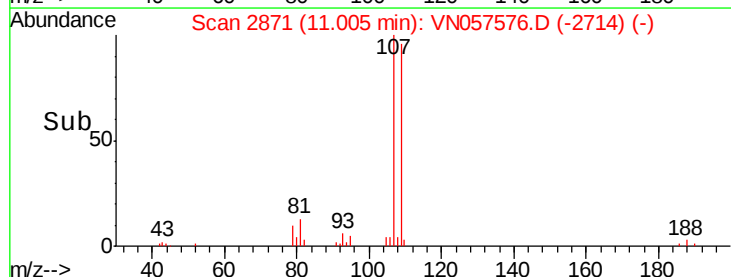
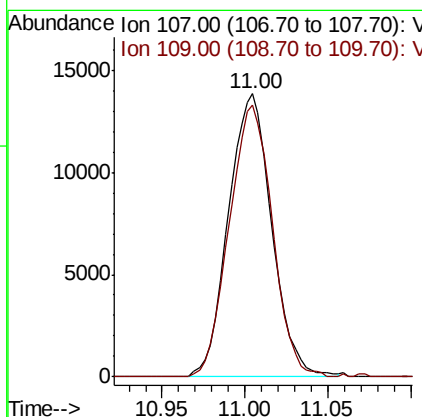
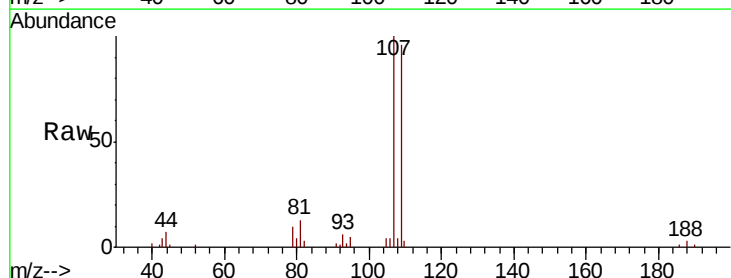
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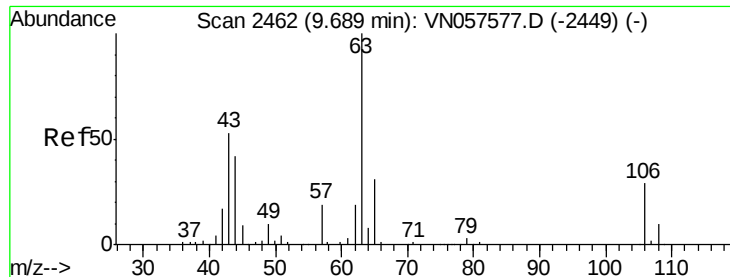
MMDadoda
 8/31/2019 10:00:17 AM



#54
 1,2-Dibromoethane
 Concen: 4.596 ug/l
 RT: 11.00 min Scan# 2871
 Delta R.T. 0.00 min
 Lab File: VN057576.D
 Acq: 30 Aug 2019 9:08

Tgt Ion:107 Resp: 25074
 Ion Ratio Lower Upper
 107 100
 109 95.3 75.2 112.8





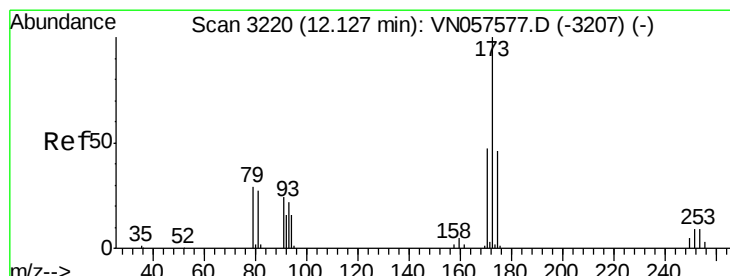
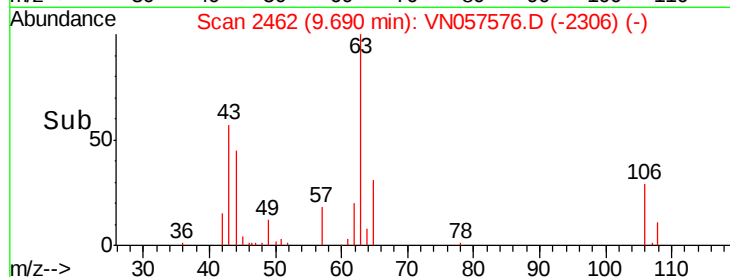
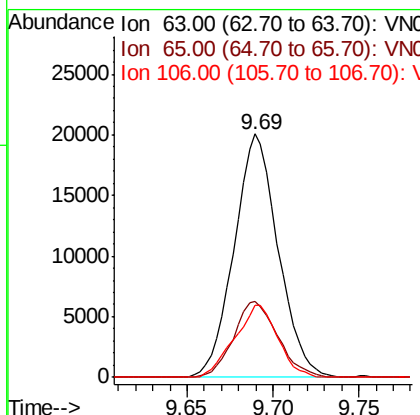
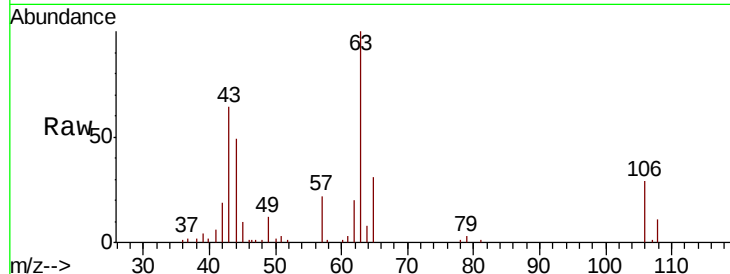
#55
2-Chloroethyl vinyl ether
Concen: 16.725 ug/l
RT: 9.69 min Scan# 2462
Delta R.T. 0.00 min
Lab File: VN057576.D
Acq: 30 Aug 2019 9:08

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tgt Ion	Ratio	Lower	Upper
63	100		
65	31.3	25.0	37.4
106	28.9	23.7	35.5

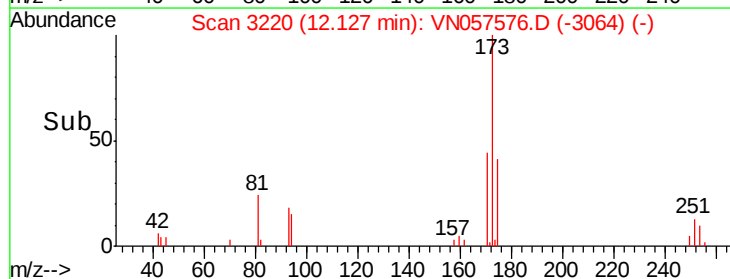
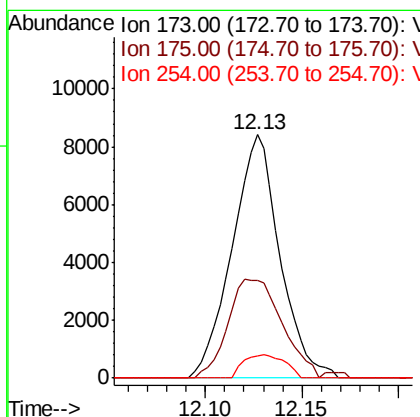
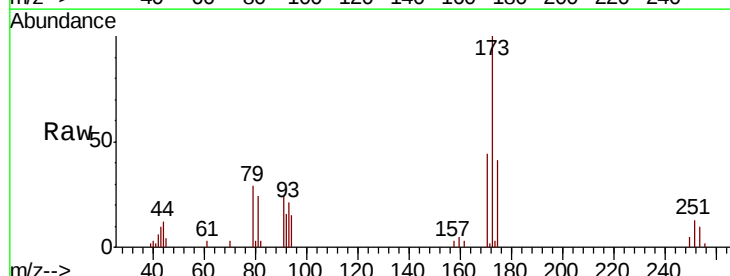
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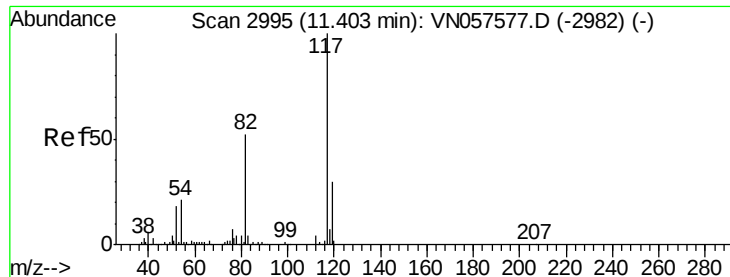
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8/31/2019 10:00:17 AM



#56
Bromoform
Concen: 4.170 ug/l
RT: 12.13 min Scan# 3220
Delta R.T. 0.00 min
Lab File: VN057576.D
Acq: 30 Aug 2019 9:08

Tgt Ion	Ratio	Lower	Upper
173	100		
175	21.6	37.3	55.9#
254	8.3	2.2	3.2#





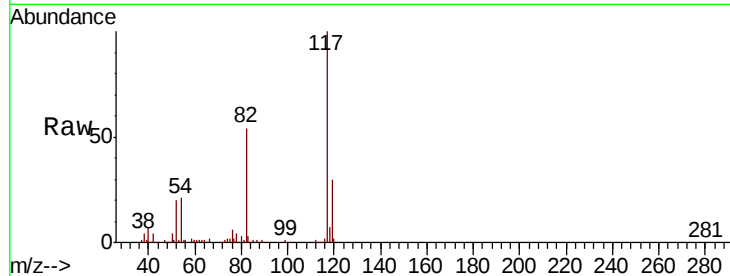
#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.40 min Scan# 2995
Delta R.T. 0.00 min
Lab File: VN057576.D
Acq: 30 Aug 2019 9:08

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

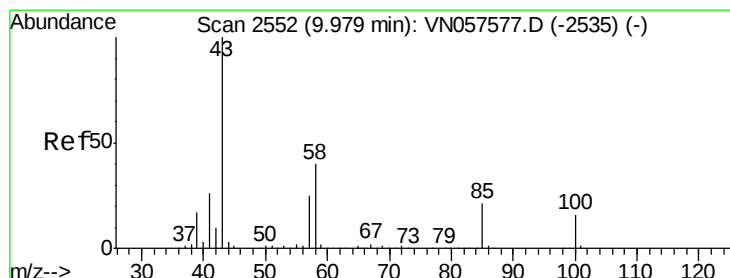
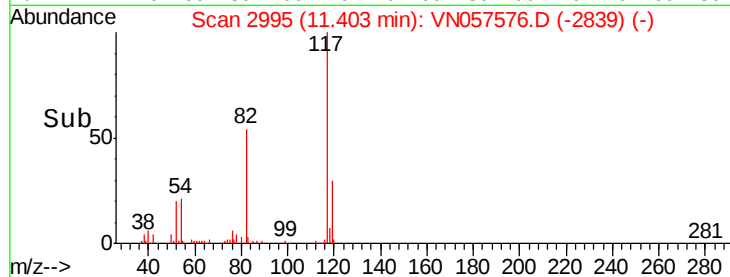
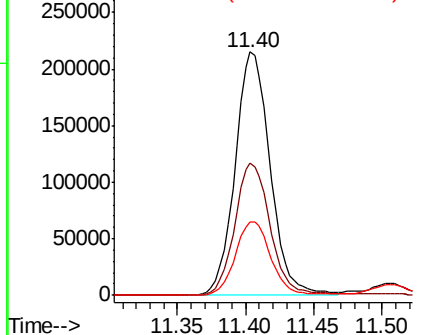
Tgt Ion	Ratio	Lower	Upper
117	100		
82	55.3	42.6	63.8
119	30.6	25.0	37.6

Manual Integrations
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8/31/2019 10:00:17 AM

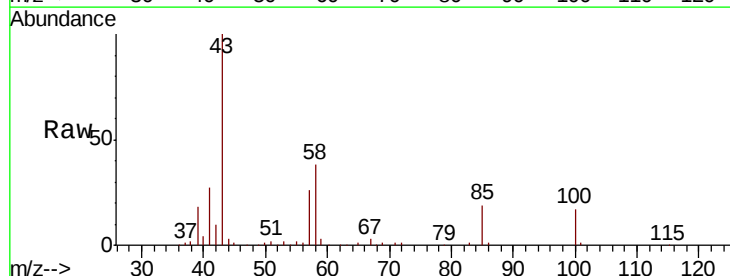


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): V
Ion 119.00 (118.70 to 119.70): V

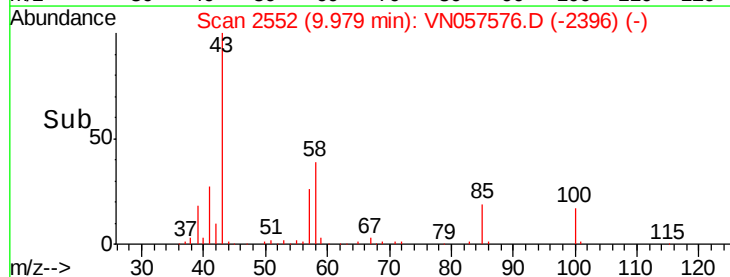
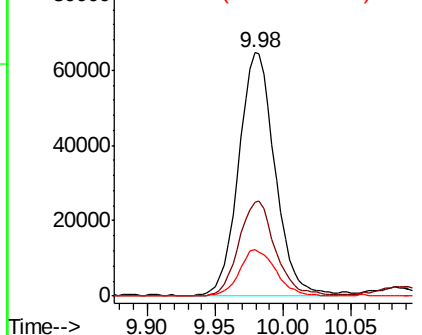


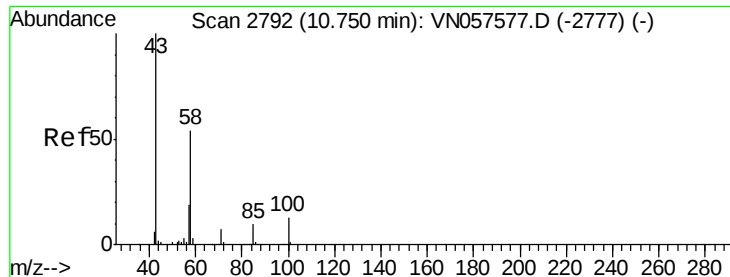
#58
4-Methyl-2-Pentanone
Concen: 17.299 ug/l
RT: 9.98 min Scan# 2552
Delta R.T. 0.00 min
Lab File: VN057576.D
Acq: 30 Aug 2019 9:08

Tgt Ion	Ratio	Lower	Upper
43	100		
58	39.5	32.1	48.1
85	19.4	16.6	24.8



Abundance Ion 43.00 (42.70 to 43.70): V
Ion 58.00 (57.70 to 58.70): V
Ion 85.00 (84.70 to 85.70): V





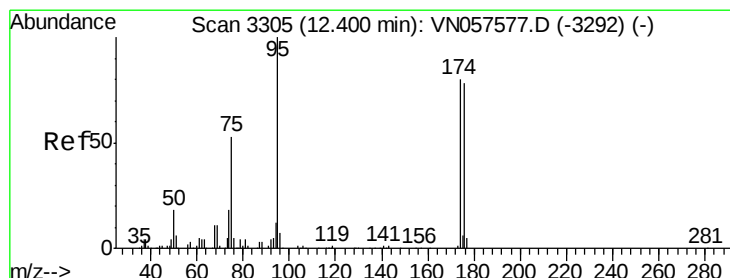
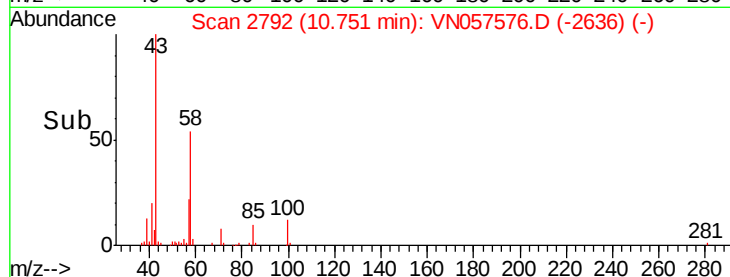
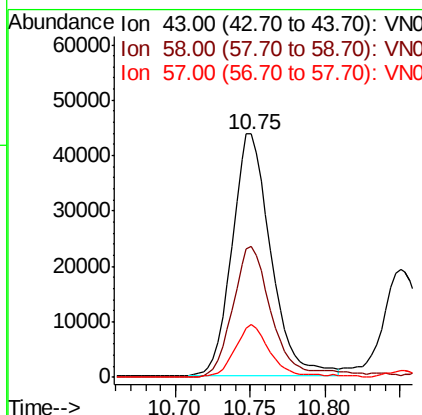
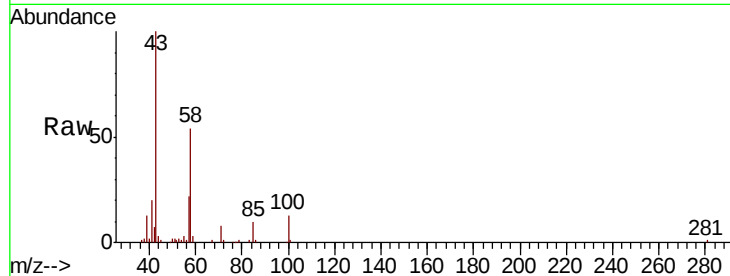
#59
2-Hexanone
Concen: 16.659 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. 0.00 min
Lab File: VN057576.D
Acq: 30 Aug 2019 9:08

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tgt Ion	Ratio	Lower	Upper
43	100		
58	52.4	42.9	64.3
57	19.3	15.4	23.2

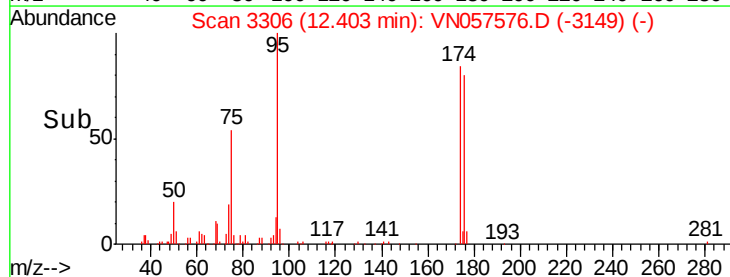
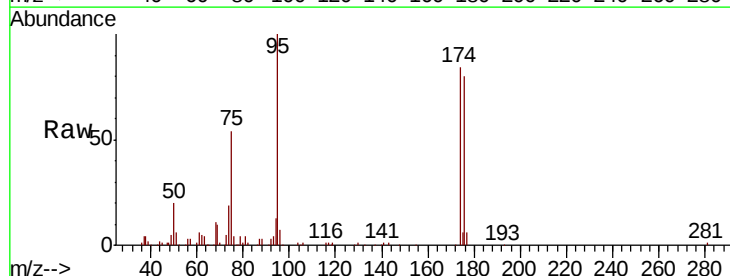
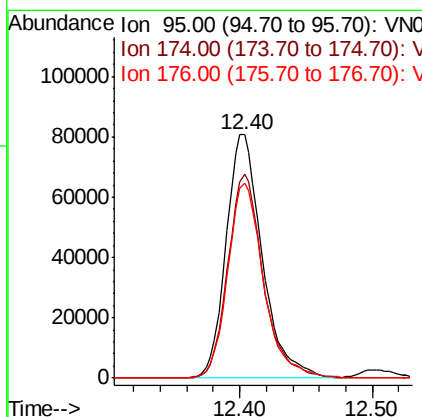
Manual Integrations
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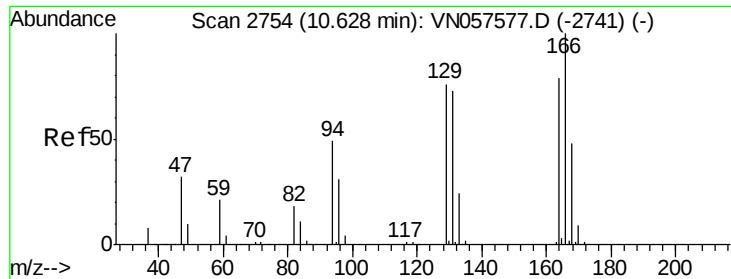
MMDadoda
8/31/2019 10:00:17 AM



#60
4-Bromofluorobenzene
Concen: 24.545 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN057576.D
Acq: 30 Aug 2019 9:08

Tgt Ion	Ratio	Lower	Upper
95	100		
174	81.9	66.2	99.2
176	79.1	65.0	97.6





#61

Tetrachloroethene

Concen: 6.501 ug/l

RT: 10.63 min Scan# 2754

Delta R.T. 0.00 min

Lab File: VN057576.D

Acq: 30 Aug 2019 9:08

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 164 Resp: 29270

Ion Ratio Lower Upper

164 100

166 117.1 100.7 151.1

129 83.8 76.3 114.5

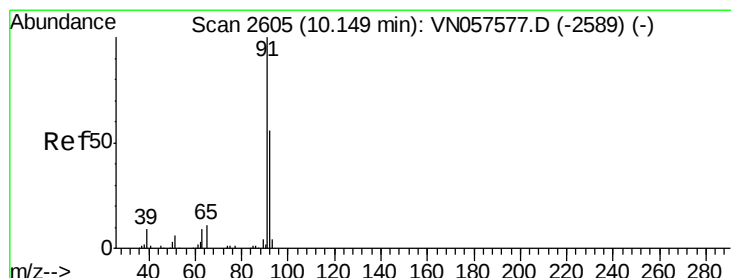
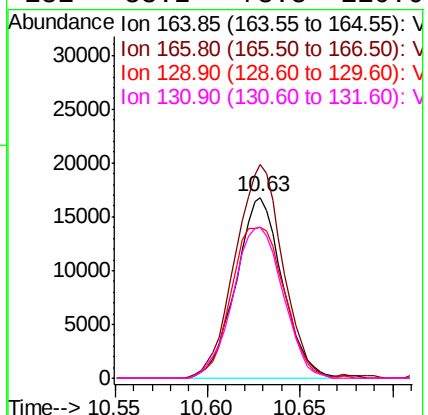
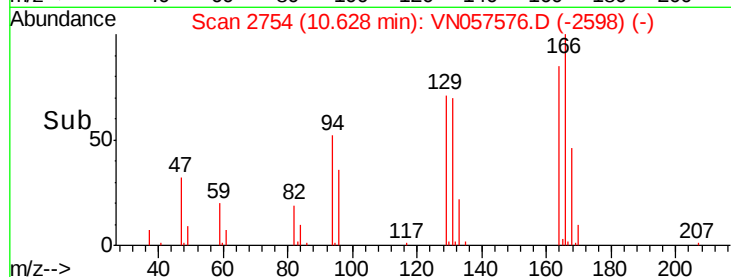
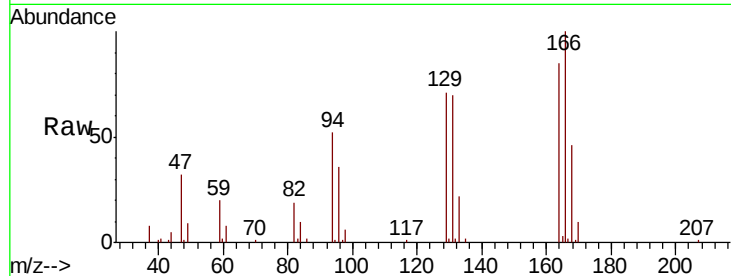
131 83.2 73.8 110.6

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#62

Toluene

Concen: 4.825 ug/l

RT: 10.15 min Scan# 2605

Delta R.T. 0.00 min

Lab File: VN057576.D

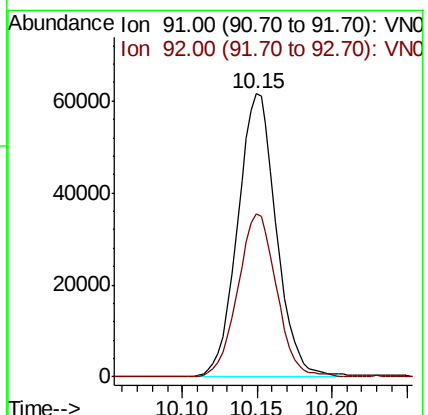
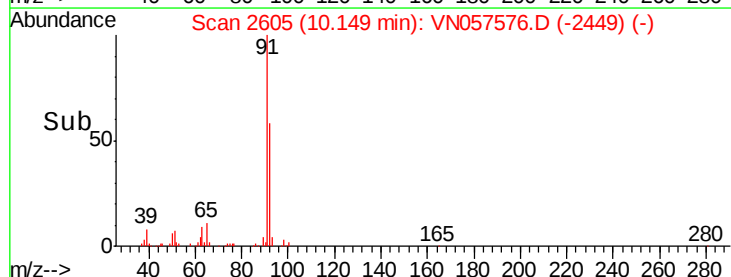
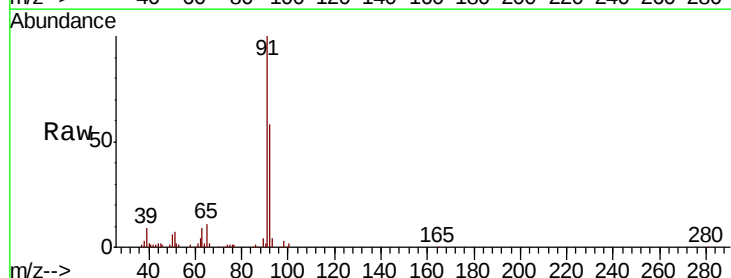
Acq: 30 Aug 2019 9:08

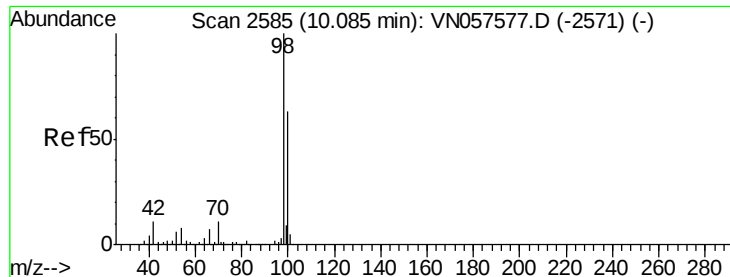
Tgt Ion: 91 Resp: 110483

Ion Ratio Lower Upper

91 100

92 57.7 45.4 68.2





#63

Toluene-d8

Concen: 30.053 ug/l

RT: 10.09 min Scan# 2585

Delta R.T. 0.00 min

Lab File: VN057576.D

Acq: 30 Aug 2019 9:08

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 98 Resp: 571861

Ion Ratio Lower Upper

98 100

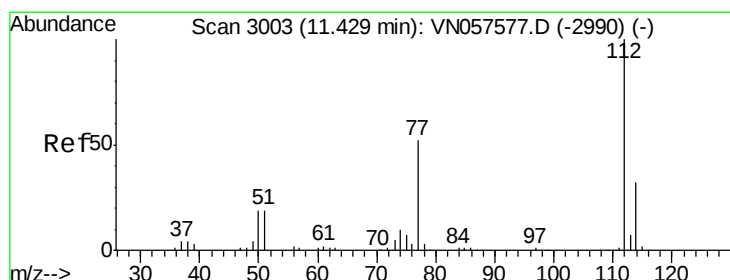
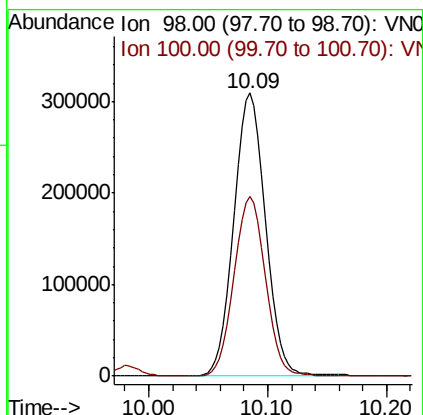
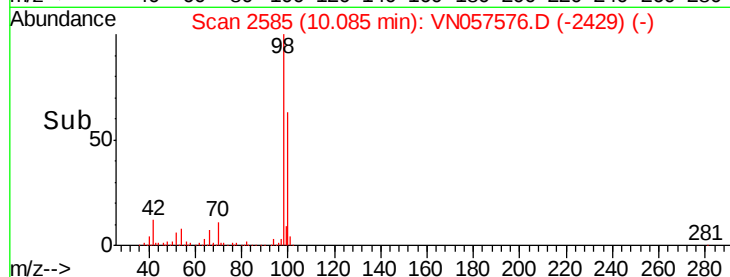
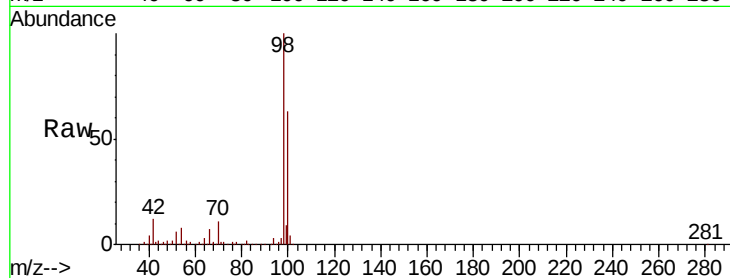
100 62.9 50.2 75.2

Manual Integrations

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#64

Chlorobenzene

Concen: 5.101 ug/l

RT: 11.43 min Scan# 3003

Delta R.T. 0.00 min

Lab File: VN057576.D

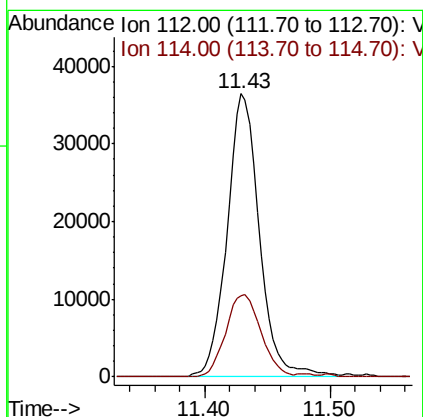
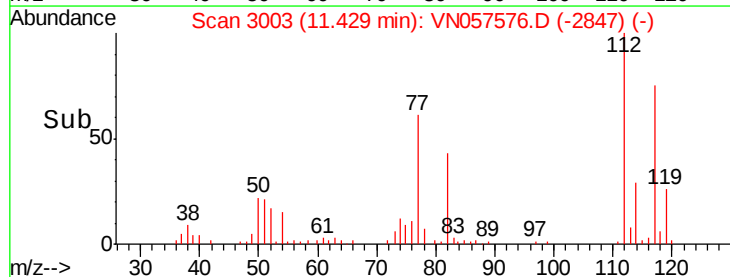
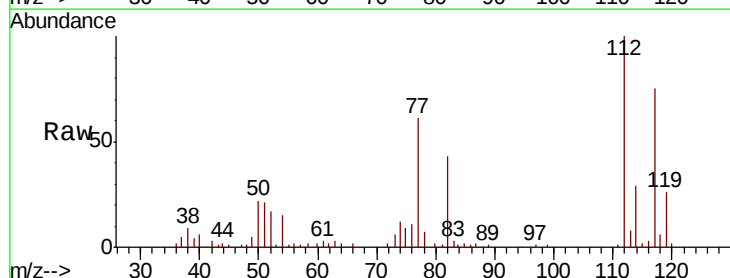
Acq: 30 Aug 2019 9:08

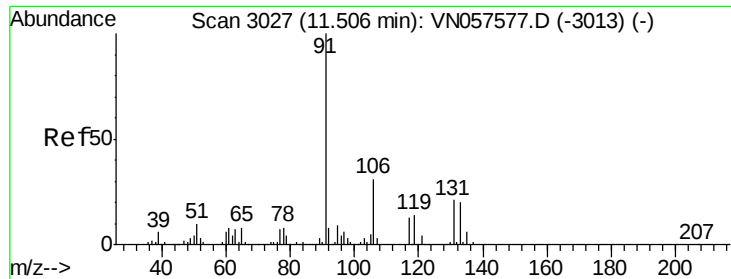
Tgt Ion: 112 Resp: 65190

Ion Ratio Lower Upper

112 100

114 28.9 25.4 38.2





#65

1,1,1,2-Tetrachloroethane

Concen: 5.079 ug/l

RT: 11.51 min Scan# 3027

Delta R.T. 0.00 min

Lab File: VN057576.D

Acq: 30 Aug 2019 9:08

Instrument :

MSVOA_N

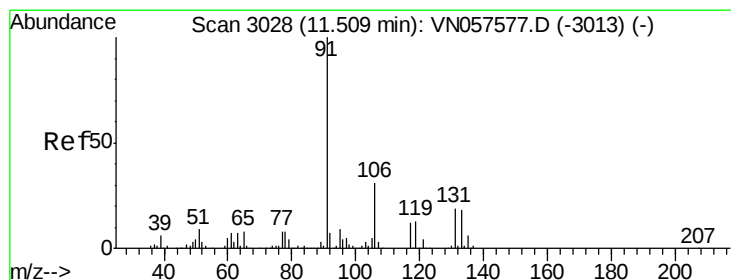
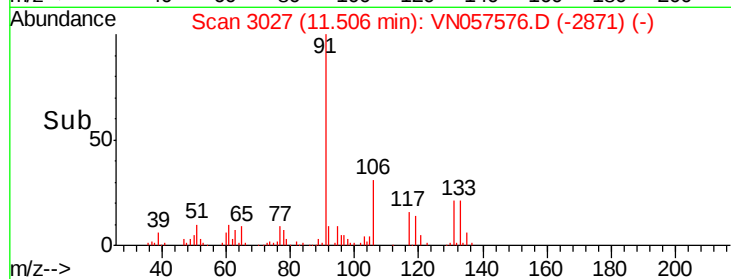
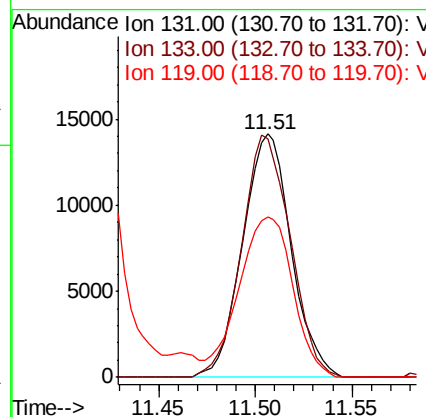
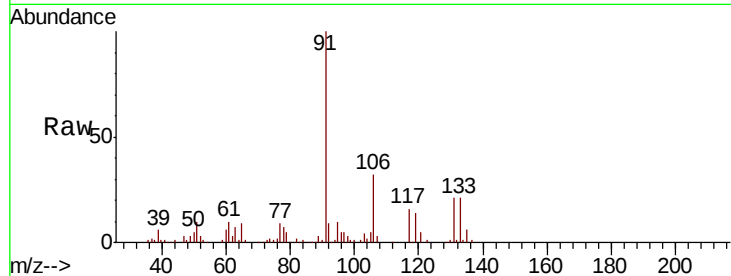
ClientSampleId :

VSTDIC005

Tgt Ion:	131	Resp:	24662
Ion Ratio	Lower	Upper	
131	100		
133	99.7	0.0	186.0
119	73.0	0.0	134.6

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#66

Ethyl Benzene

Concen: 4.751 ug/l

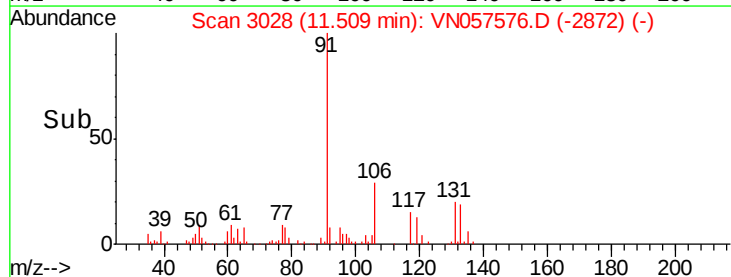
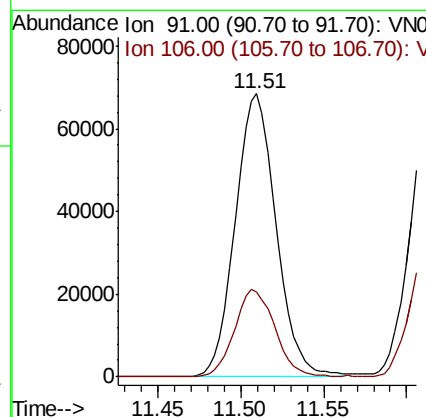
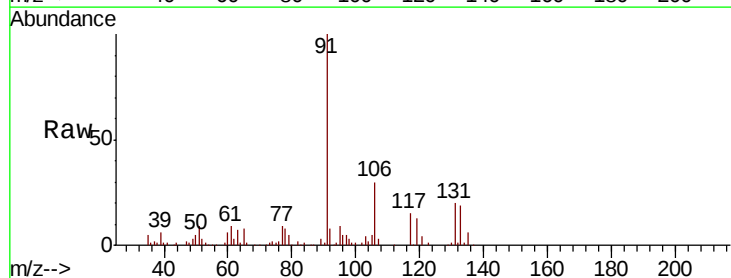
RT: 11.51 min Scan# 3028

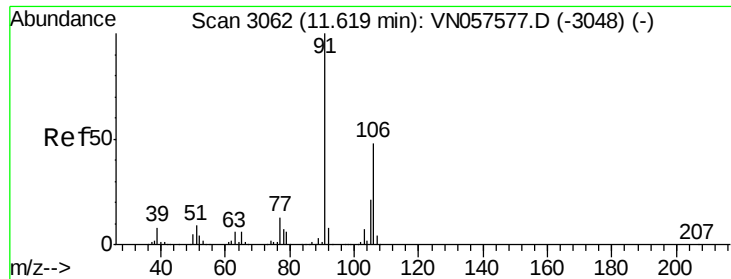
Delta R.T. 0.00 min

Lab File: VN057576.D

Acq: 30 Aug 2019 9:08

Tgt Ion:	91	Resp:	117261
Ion Ratio	Lower	Upper	
91	100		
106	30.2	24.7	37.1





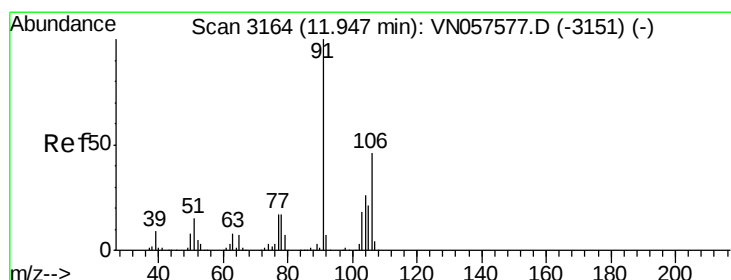
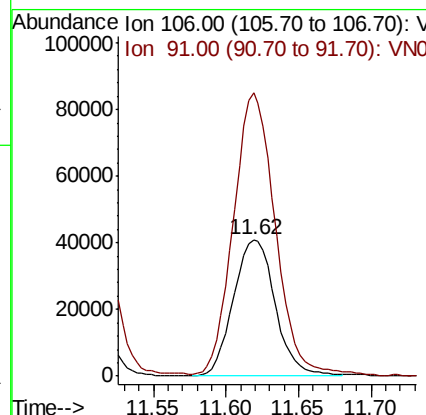
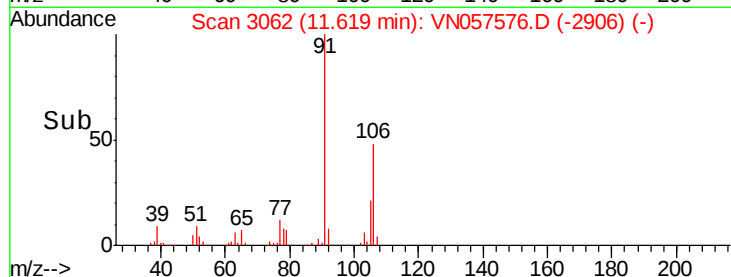
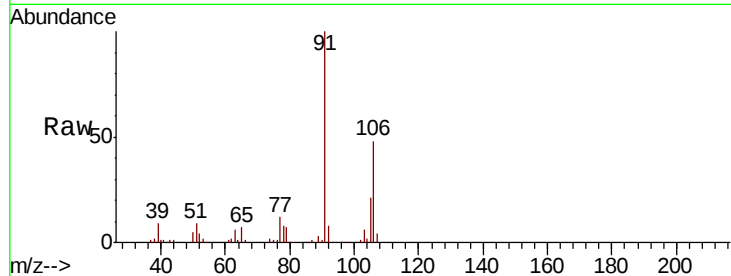
#67
m/p-Xylenes
Concen: 9.464 ug/l
RT: 11.62 min Scan# 3062
Delta R.T. 0.00 min
Lab File: VN057576.D
Acq: 30 Aug 2019 9:08

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tgt Ion:106 Resp: 82378
Ion Ratio Lower Upper
106 100
91 208.7 164.1 246.1

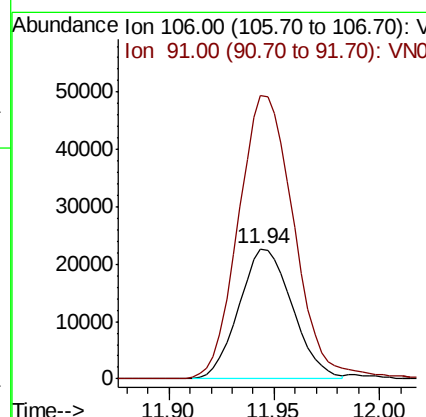
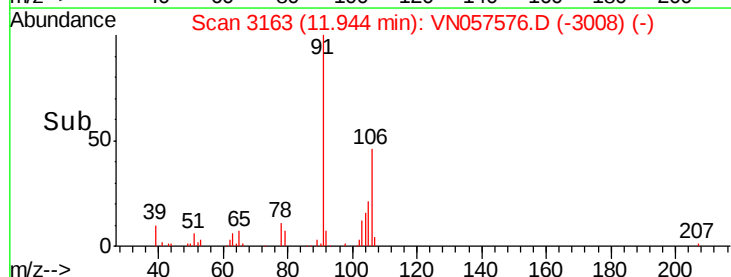
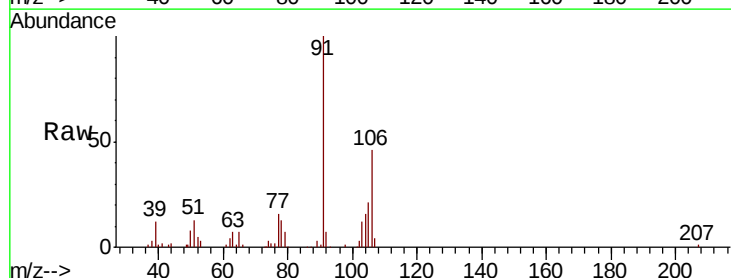
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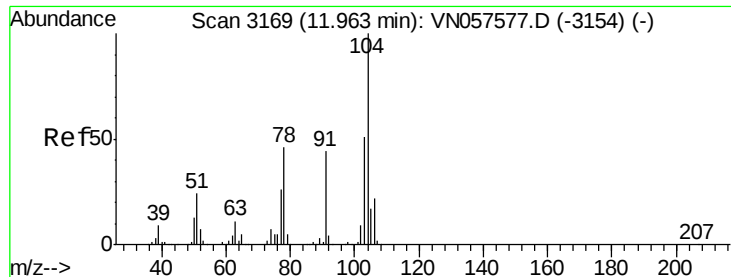
MMDadoda
8/31/2019 10:00:17 AM



#68
o-Xylene
Concen: 4.663 ug/l
RT: 11.94 min Scan# 3163
Delta R.T. -0.00 min
Lab File: VN057576.D
Acq: 30 Aug 2019 9:08

Tgt Ion:106 Resp: 39934
Ion Ratio Lower Upper
106 100
91 227.3 107.8 323.6





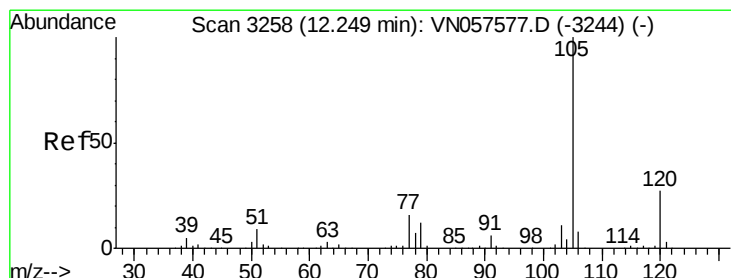
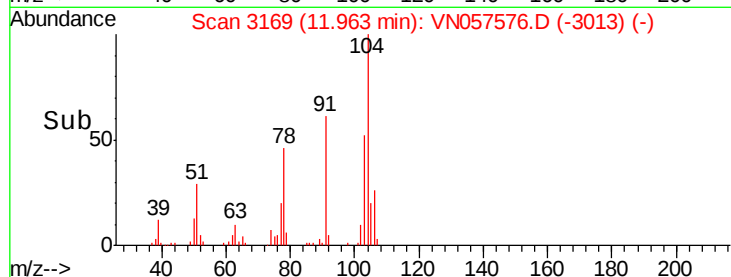
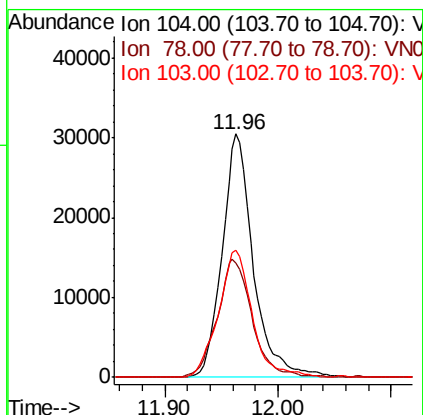
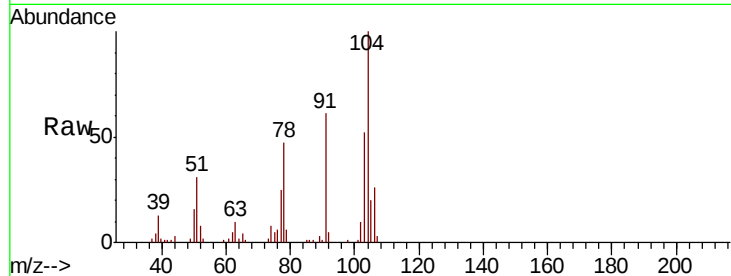
#69
Styrene
Concen: 4.212 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN057576.D
Acq: 30 Aug 2019 9:08

Instrument :
MSVOA_N
ClientSampled :
VSTDIC005

Tgt Ion	Ratio	Resp	Lower	Upper
104	100	58227		
78	54.2		41.4	62.0
103	55.8		44.8	67.2

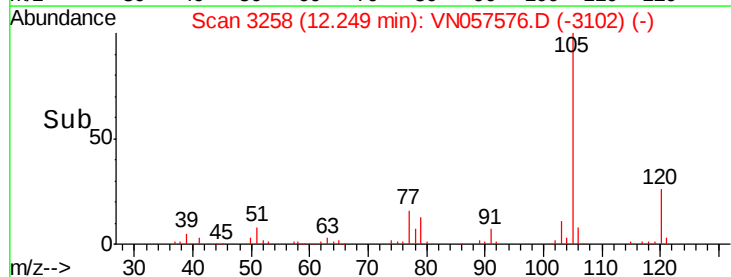
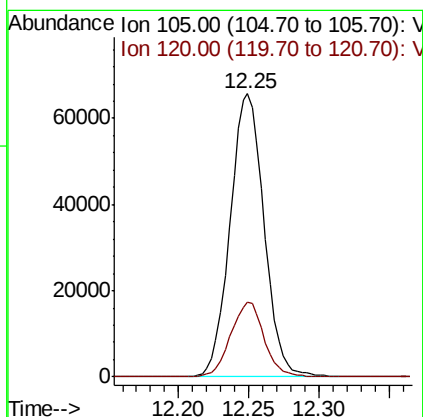
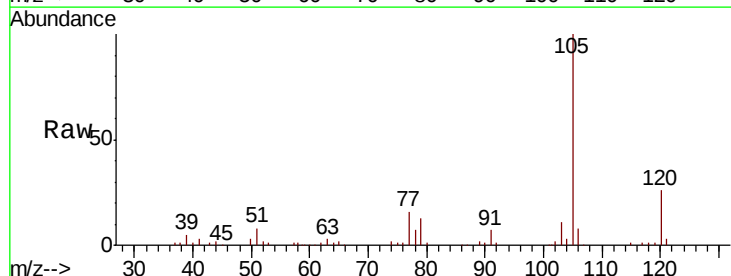
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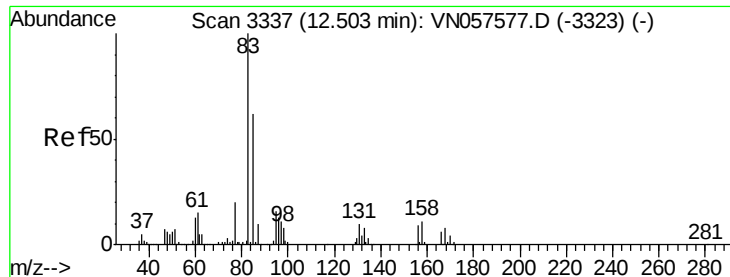
MMDadoda
8/31/2019 10:00:17 AM



#70
Isopropylbenzene
Concen: 4.781 ug/l
RT: 12.25 min Scan# 3258
Delta R.T. 0.00 min
Lab File: VN057576.D
Acq: 30 Aug 2019 9:08

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	110700		
120	26.1		18.7	34.7





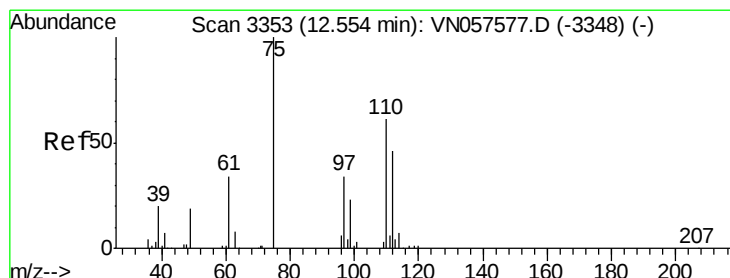
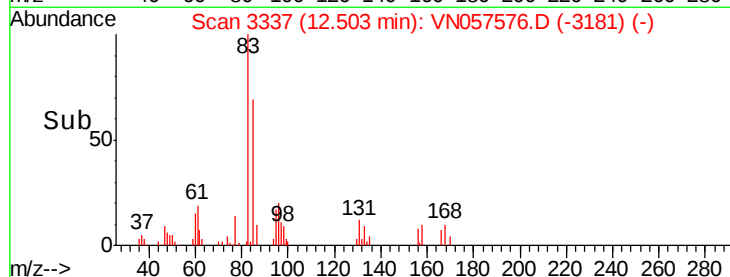
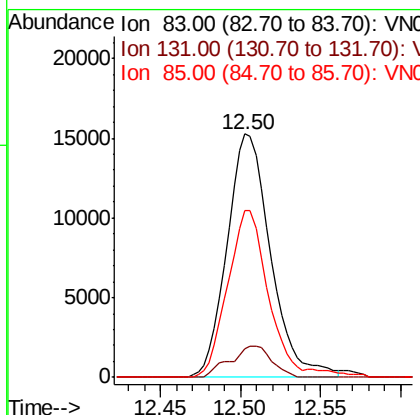
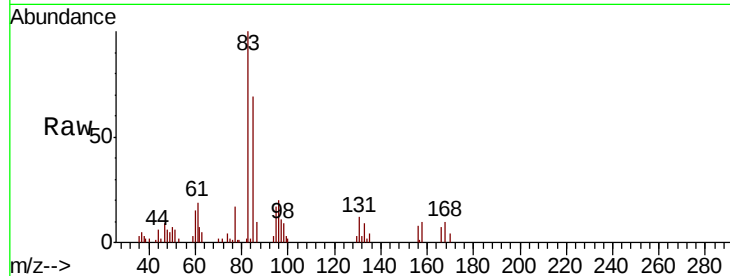
#71
 1,1,2,2-Tetrachloroethane
 Concen: 4.374 ug/l
 RT: 12.50 min Scan# 3337
 Delta R.T. 0.00 min
 Lab File: VN057576.D
 Acq: 30 Aug 2019 9:08

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tgt Ion	Ratio	Lower	Upper
83	100		
131	8.9	5.2	15.6
85	62.7	31.6	94.8

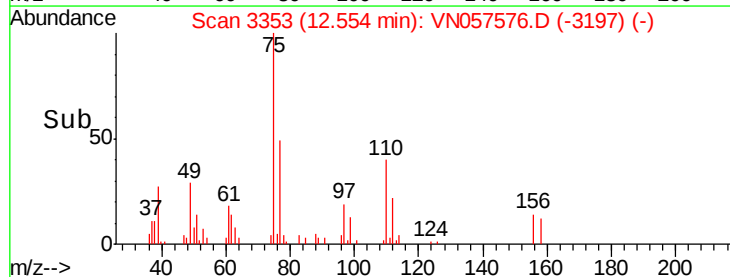
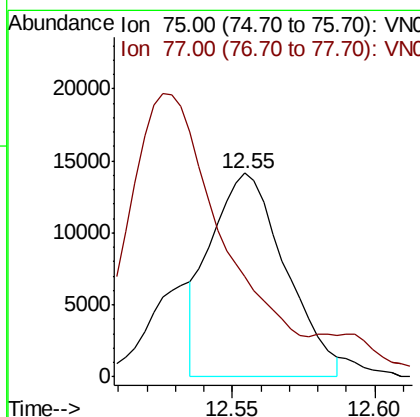
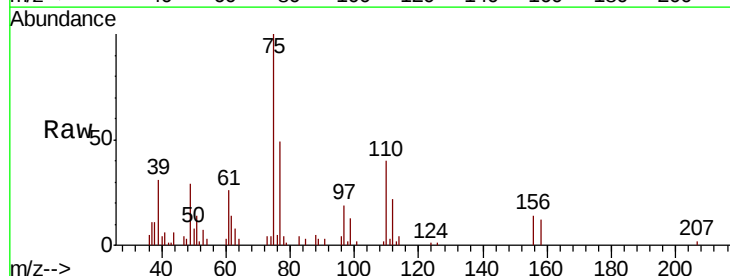
Manual Integrations
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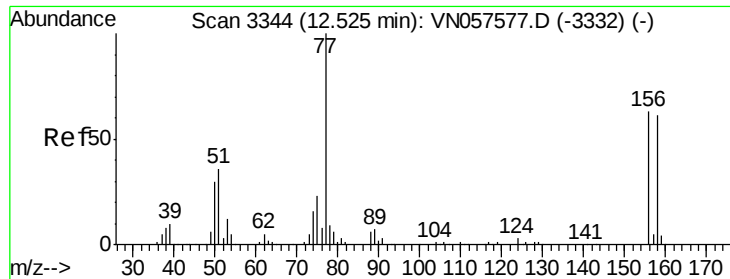
MMDadoda
 8/31/2019 10:00:17 AM



#72
 1,2,3-Trichloropropane
 Concen: 4.395 ug/l m
 RT: 12.55 min Scan# 3353
 Delta R.T. 0.00 min
 Lab File: VN057576.D
 Acq: 30 Aug 2019 9:08

Tgt Ion	Ratio	Lower	Upper
75	100		
77	181.3	0.0	399.2





#73

Bromobenzene

Concen: 4.969 ug/l

RT: 12.53 min Scan# 3345

Delta R.T. 0.00 min

Lab File: VN057576.D

Acq: 30 Aug 2019 9:08

Instrument :

MSVOA_N

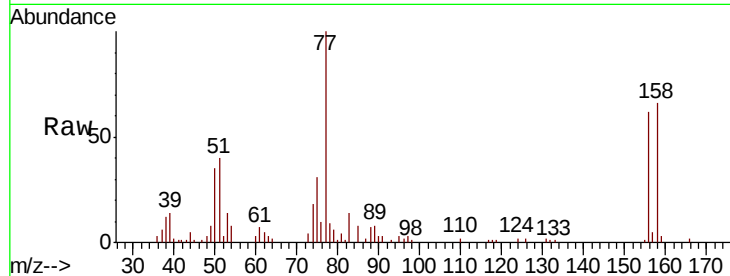
ClientSampled :

VSTDIC005

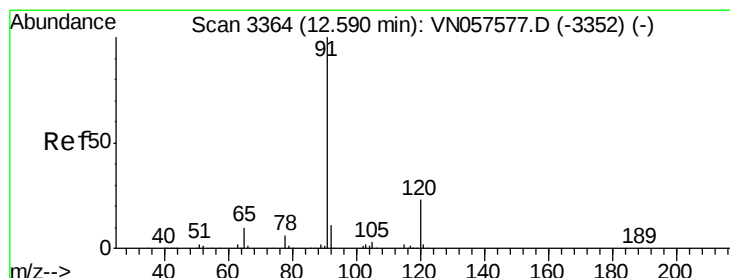
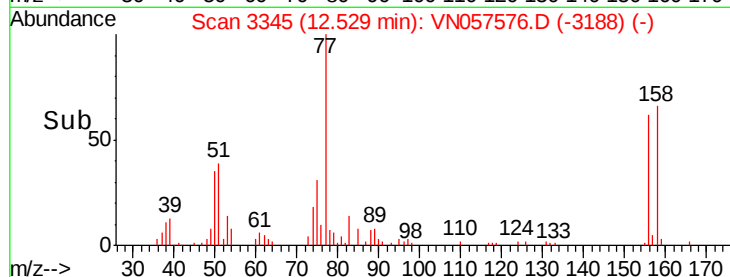
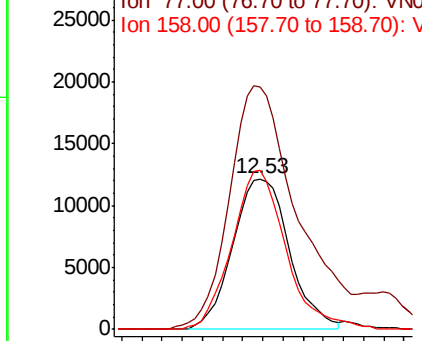
Tgt Ion:	156	Resp:	23870
Ion Ratio	Lower	Upper	
156	100		
77	194.9	0.0	374.6
158	101.3	0.0	197.4

Manual Integrations
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Abundance Ion 156.00 (155.70 to 156.70): V
Ion 77.00 (76.70 to 77.70): V
Ion 158.00 (157.70 to 158.70): V



#74

n-propylbenzene

Concen: 4.156 ug/l

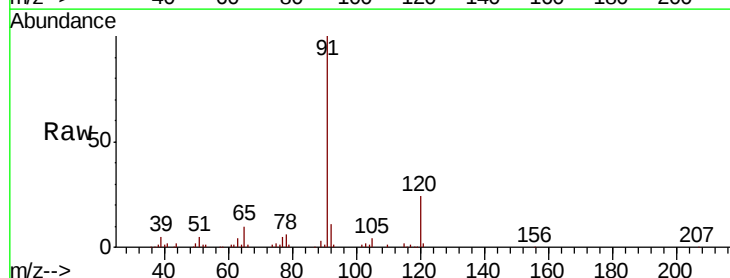
RT: 12.59 min Scan# 3364

Delta R.T. 0.00 min

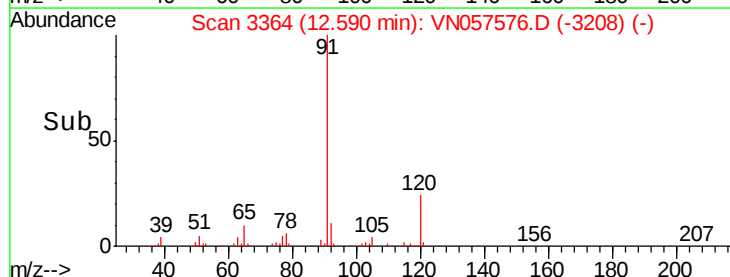
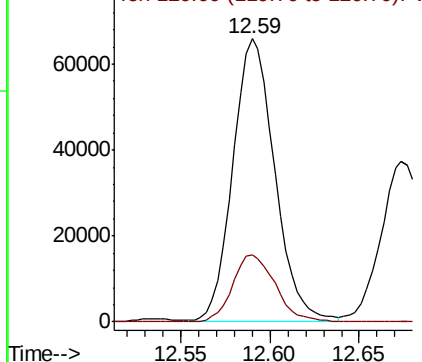
Lab File: VN057576.D

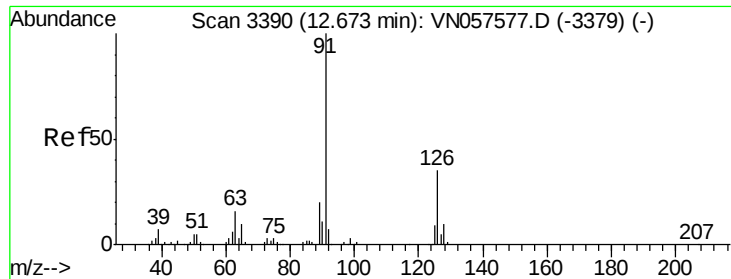
Acq: 30 Aug 2019 9:08

Tgt Ion:	91	Resp:	108258
Ion Ratio	Lower	Upper	
91	100		
120	24.1	0.0	46.6



Abundance Ion 91.00 (90.70 to 91.70): V
Ion 120.00 (119.70 to 120.70): V





#75

2-Chlorotoluene

Concen: 4.300 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VN057576.D

Acq: 30 Aug 2019 9:08

Instrument :

MSVOA_N

ClientSampled :

VSTDIC005

Tgt Ion: 91 Resp: 65930

Ion Ratio Lower Upper

91 100

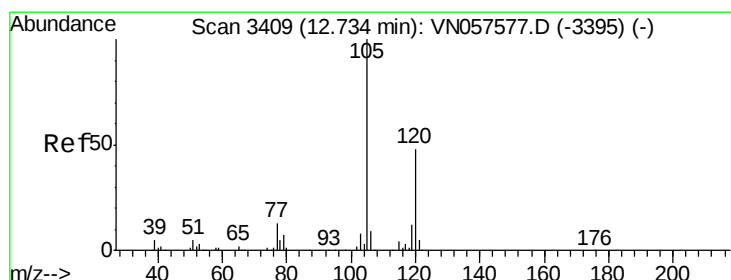
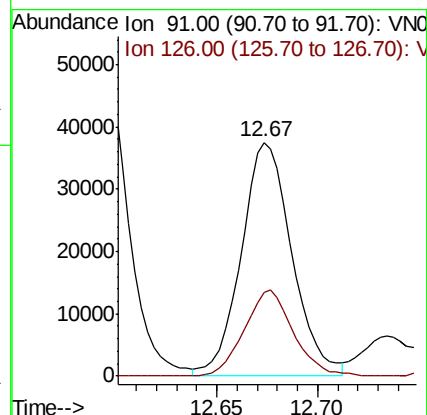
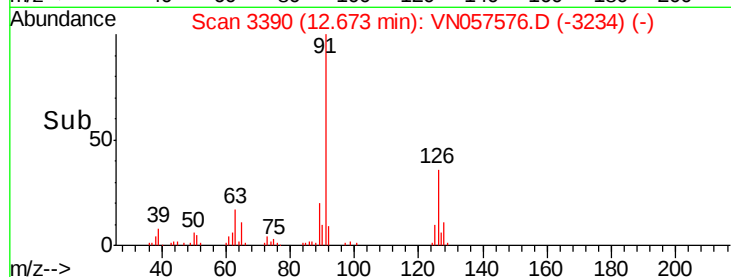
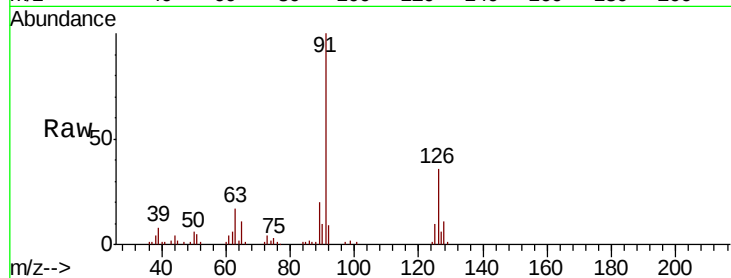
126 35.7 0.0 70.4

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#76

1,3,5-Trimethylbenzene

Concen: 4.544 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN057576.D

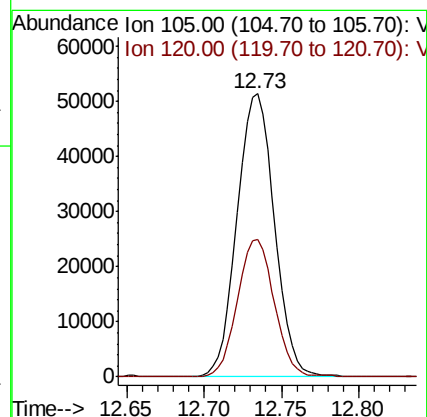
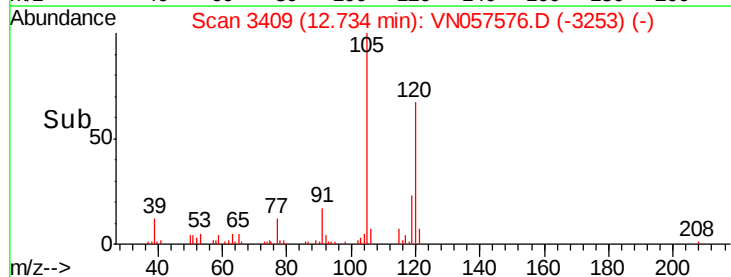
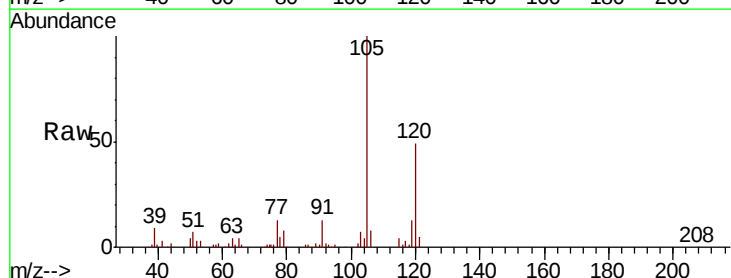
Acq: 30 Aug 2019 9:08

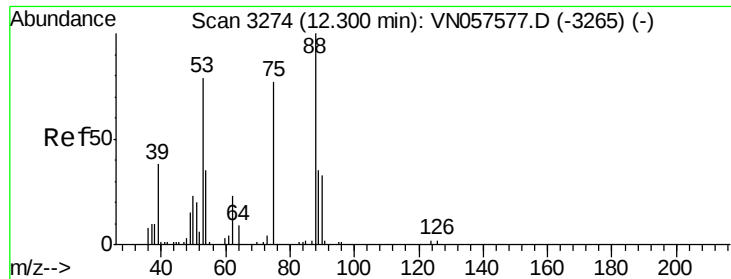
Tgt Ion: 105 Resp: 86373

Ion Ratio Lower Upper

105 100

120 47.6 0.0 95.8





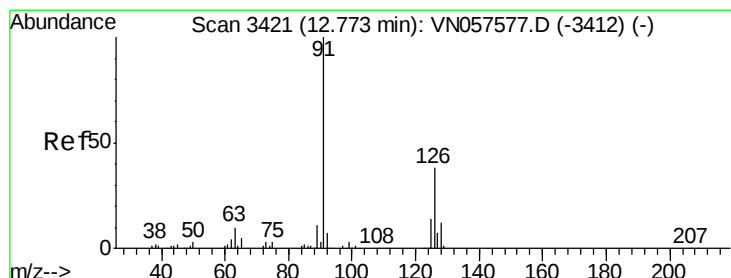
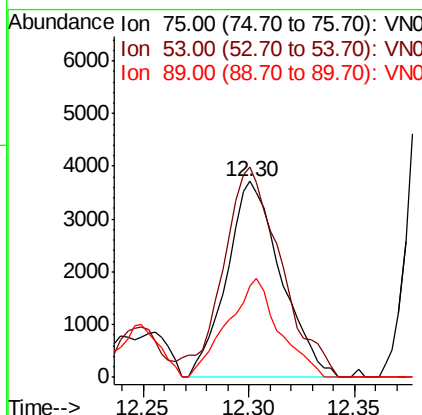
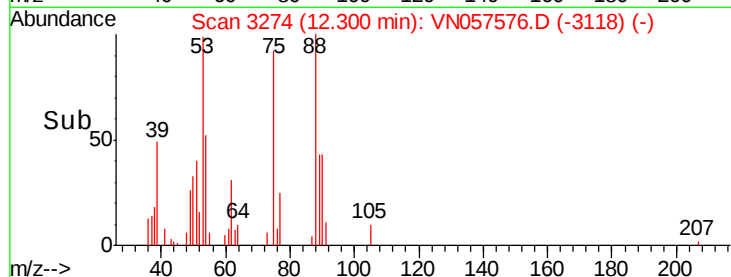
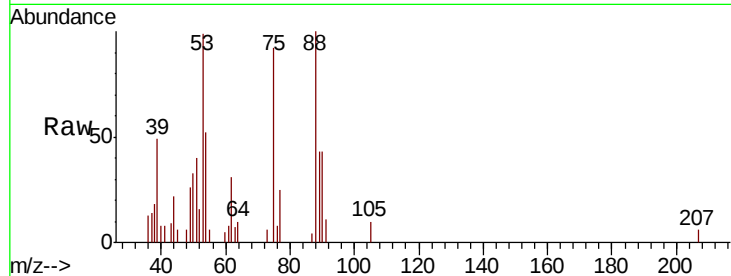
#77
t-1,4-Dichloro-2-butene
Concen: 3.312 ug/l
RT: 12.30 min Scan# 3274
Delta R.T. 0.00 min
Lab File: VN057576.D
Acq: 30 Aug 2019 9:08

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tgt Ion: 75 Resp: 6650
Ion Ratio Lower Upper
75 100
53 107.3 52.8 158.4
89 46.4 23.2 69.5

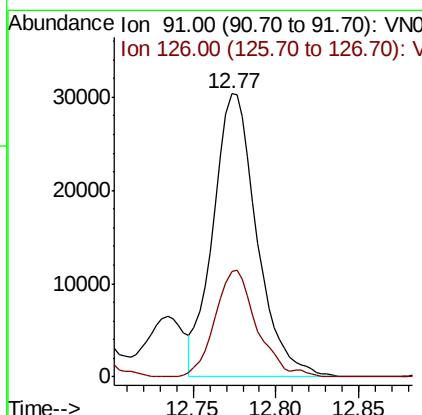
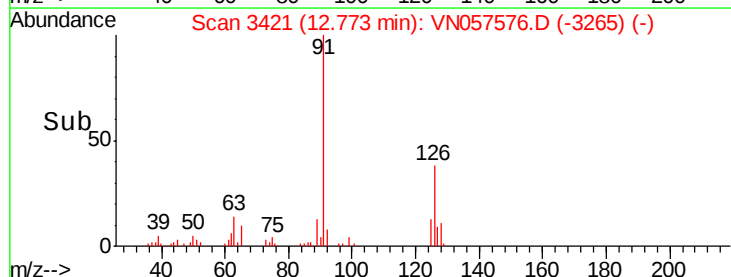
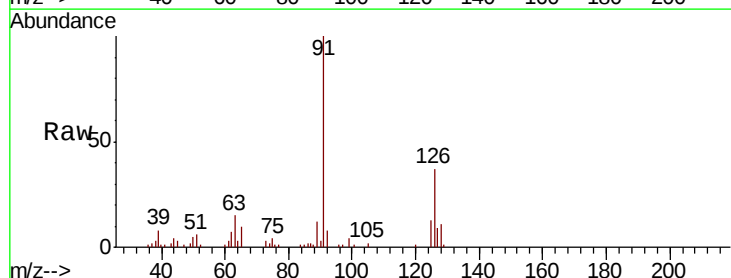
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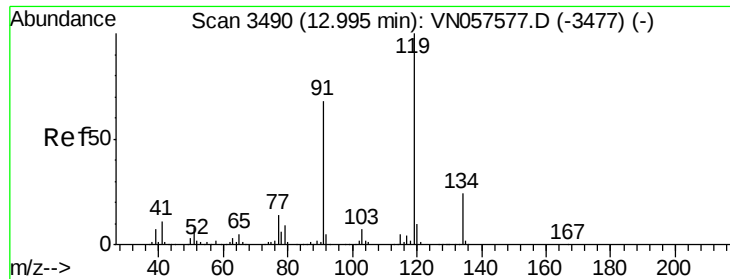
MMDadoda
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#78
4-Chlorotoluene
Concen: 3.798 ug/l
RT: 12.77 min Scan# 3421
Delta R.T. 0.00 min
Lab File: VN057576.D
Acq: 30 Aug 2019 9:08

Tgt Ion: 91 Resp: 55841
Ion Ratio Lower Upper
91 100
126 35.2 0.0 68.6





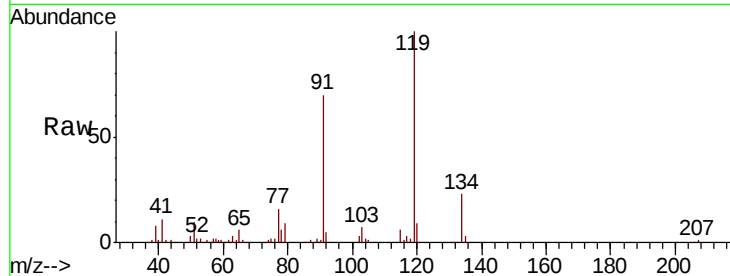
#79
tert-butylbenzene
Concen: 5.001 ug/l
RT: 12.99 min Scan# 3490
Delta R.T. 0.00 min
Lab File: VN057576.D
Acq: 30 Aug 2019 9:08

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

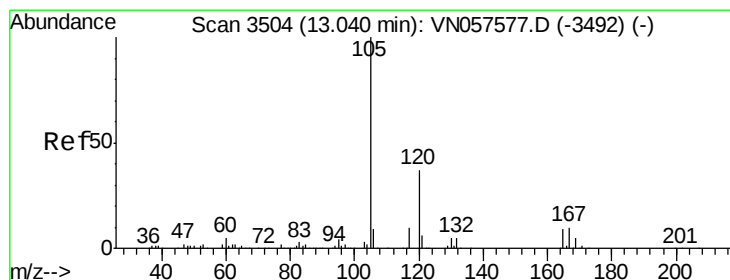
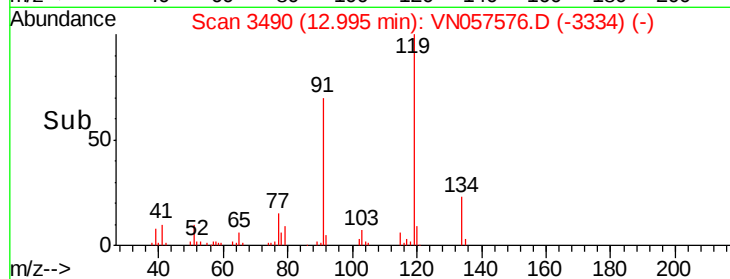
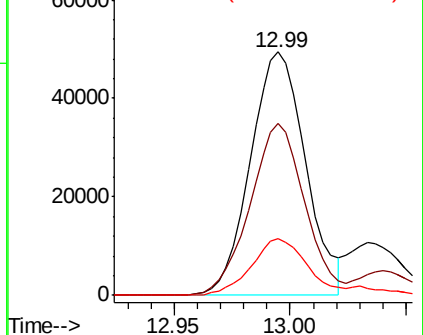
Tgt Ion	Ratio	Resp	Lower	Upper
119	100	81694		
91	69.7	0.0	137.6	
134	23.4	0.0	47.8	

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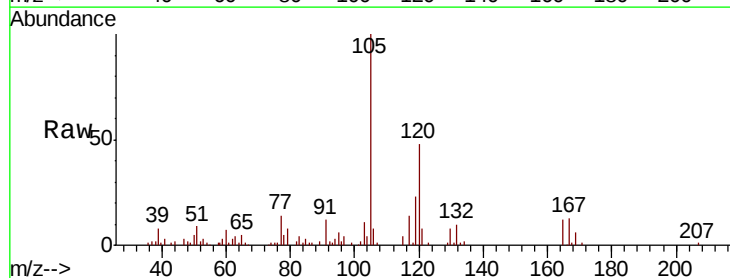


Abundance Ion 119.00 (118.70 to 119.70): V
Ion 91.00 (90.70 to 91.70): V
Ion 134.00 (133.70 to 134.70): V

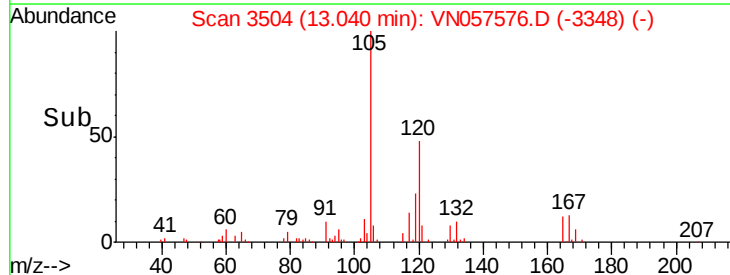
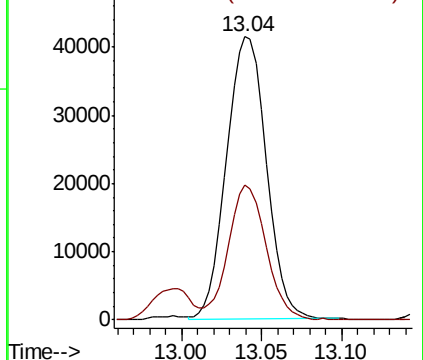


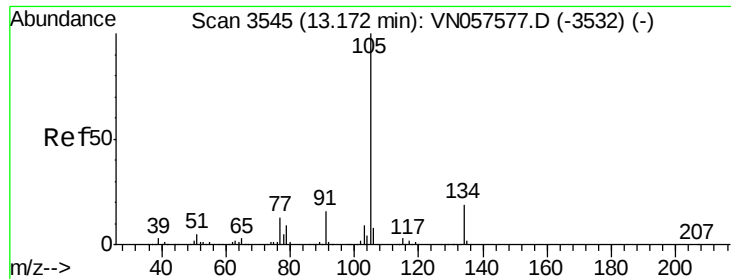
#80
1,2,4-Trimethylbenzene
Concen: 3.938 ug/l
RT: 13.04 min Scan# 3504
Delta R.T. 0.00 min
Lab File: VN057576.D
Acq: 30 Aug 2019 9:08

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	70363		
120	45.7	0.0	87.2	



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V





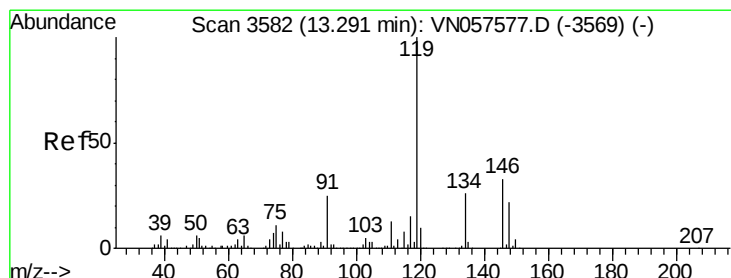
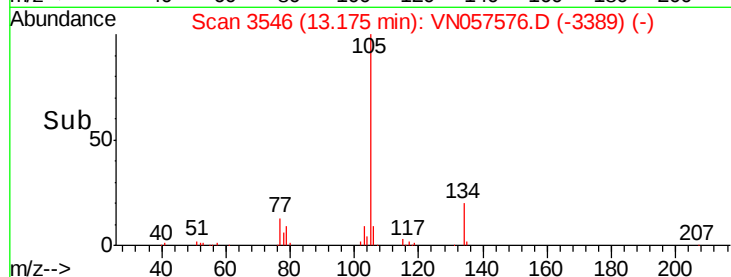
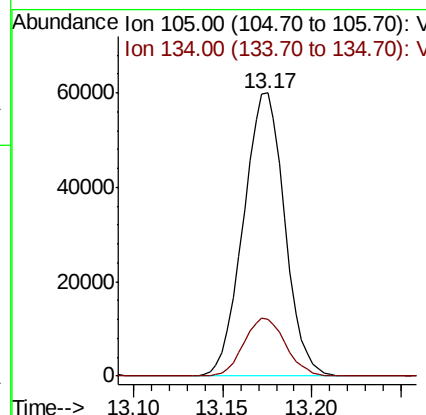
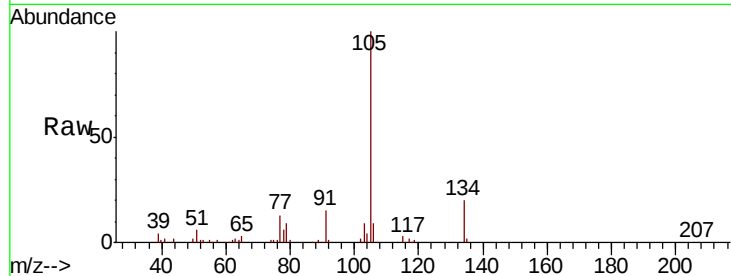
#81
 sec-Butylbenzene
 Concen: 4.515 ug/l
 RT: 13.17 min Scan# 3546
 Delta R.T. 0.00 min
 Lab File: VN057576.D
 Acq: 30 Aug 2019 9:08

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tgt Ion	Ratio	Lower	Upper
105	100		
134	20.6	0.0	39.2

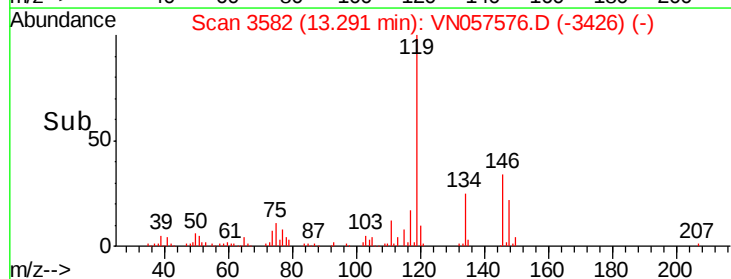
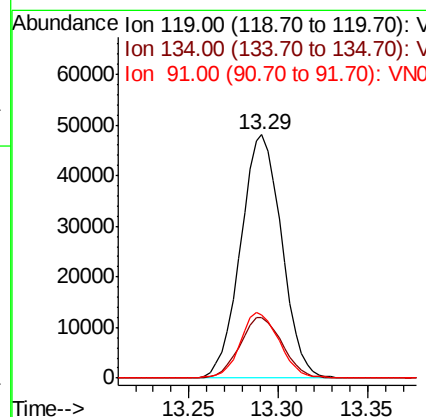
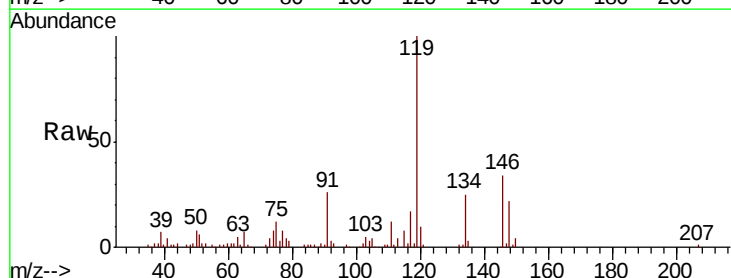
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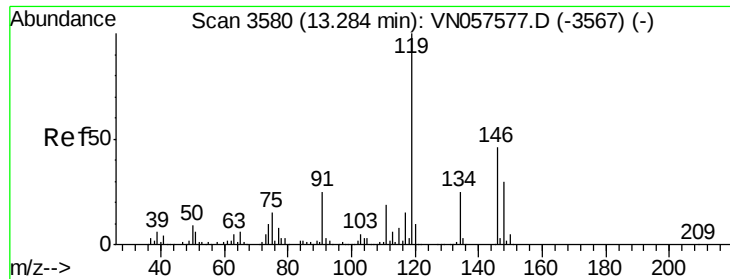
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#82
 p-Isopropyltoluene
 Concen: 4.215 ug/l
 RT: 13.29 min Scan# 3582
 Delta R.T. 0.00 min
 Lab File: VN057576.D
 Acq: 30 Aug 2019 9:08

Tgt Ion	Ratio	Lower	Upper
119	100		
134	25.8	0.0	51.6
91	25.7	0.0	50.8





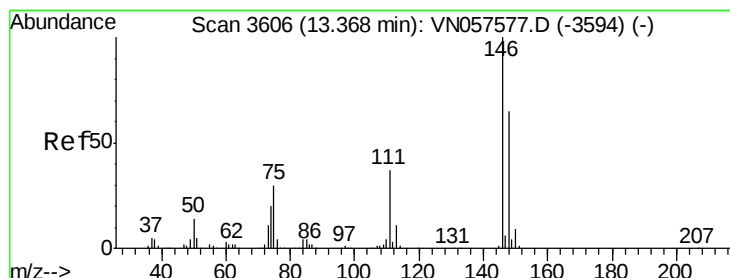
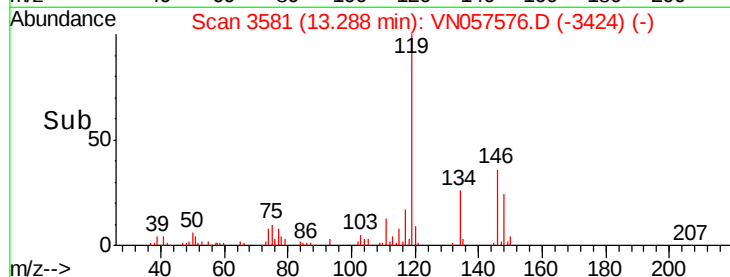
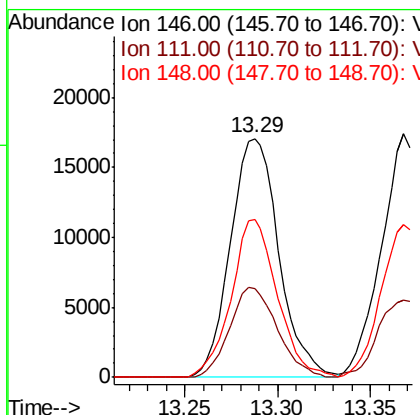
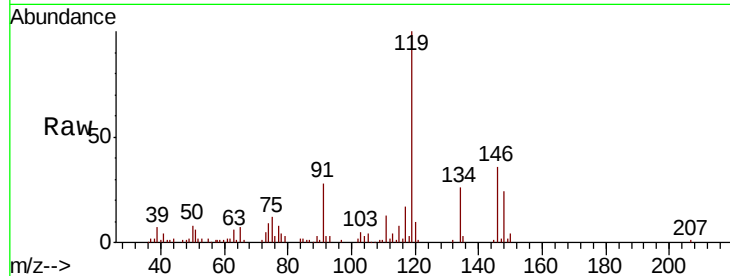
#83
 1,3-Dichlorobenzene
 Concen: 4.116 ug/l
 RT: 13.29 min Scan# 3581
 Delta R.T. 0.00 min
 Lab File: VN057576.D
 Acq: 30 Aug 2019 9:08

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tgt Ion	Ratio	Lower	Upper
146	100		
111	36.8	20.0	60.0
148	62.6	32.3	96.9

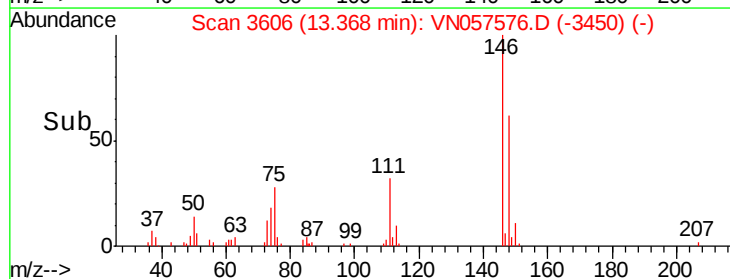
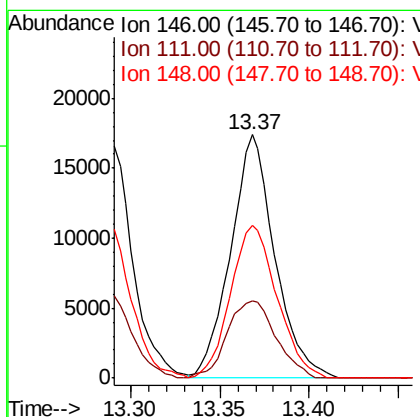
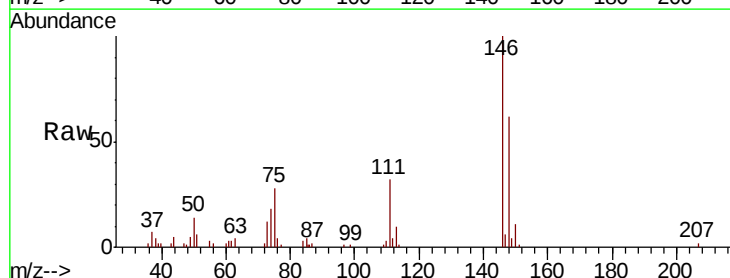
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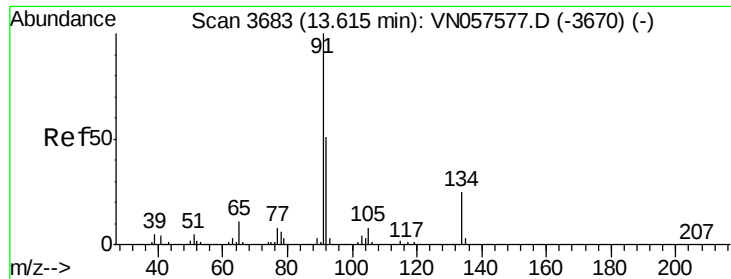
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 8/31/2019 10:00:17 AM



#84
 1,4-Dichlorobenzene
 Concen: 4.099 ug/l
 RT: 13.37 min Scan# 3606
 Delta R.T. 0.00 min
 Lab File: VN057576.D
 Acq: 30 Aug 2019 9:08

Tgt Ion	Ratio	Lower	Upper
146	100		
111	35.1	19.3	57.9
148	66.1	32.2	96.6





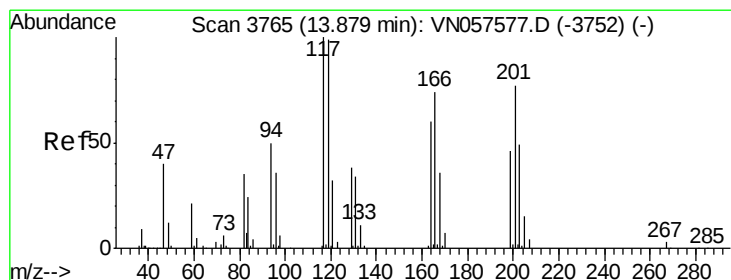
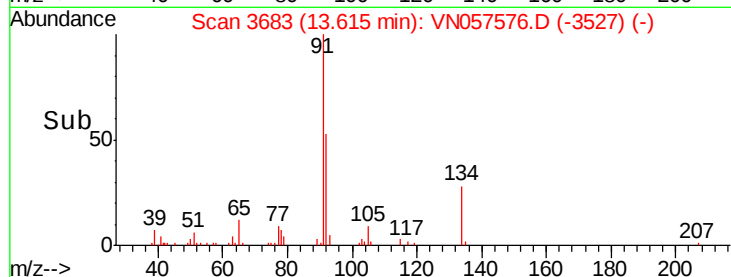
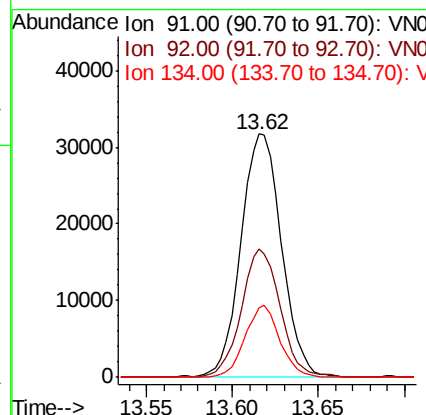
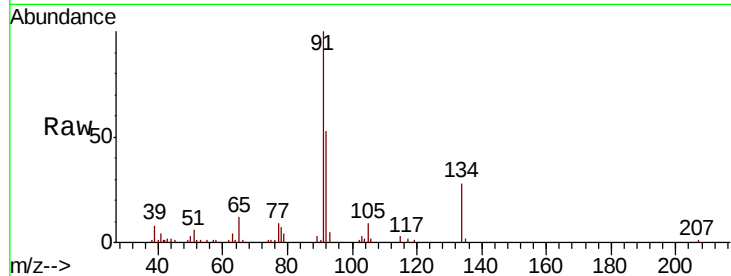
#85
n-Butylbenzene
Concen: 3.349 ug/l
RT: 13.62 min Scan# 3683
Delta R.T. 0.00 min
Lab File: VN057576.D
Acq: 30 Aug 2019 9:08

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tgt Ion	Ratio	Lower	Upper
91	100		
92	50.6	0.0	103.0
134	25.3	0.0	51.0

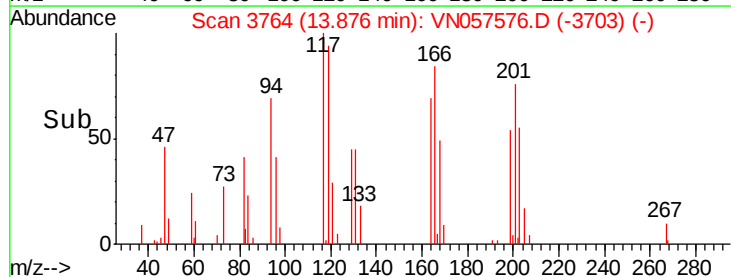
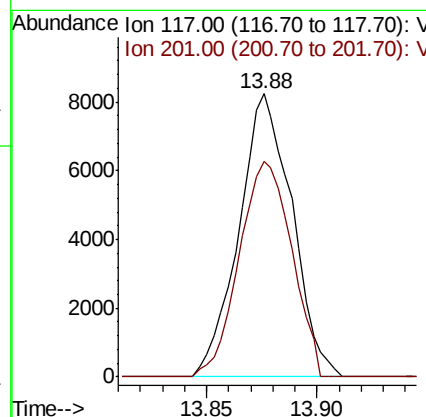
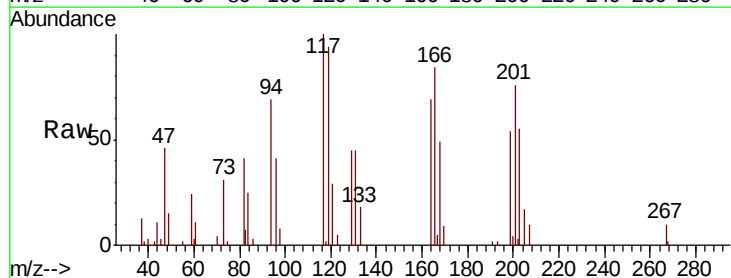
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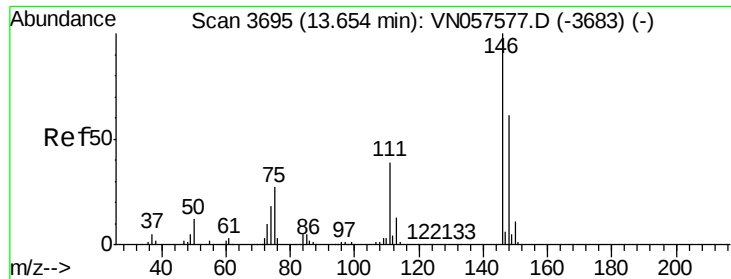
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8/31/2019 10:00:17 AM



#86
Hexachloroethane
Concen: 3.894 ug/l
RT: 13.88 min Scan# 3764
Delta R.T. -0.00 min
Lab File: VN057576.D
Acq: 30 Aug 2019 9:08

Tgt Ion	Ratio	Lower	Upper
117	100		
201	75.4	38.0	113.9





#87

1,2-Dichlorobenzene

Concen: 3.981 ug/l

RT: 13.66 min Scan# 3696

Delta R.T. 0.00 min

Lab File: VN057576.D

Acq: 30 Aug 2019 9:08

Instrument :

MSVOA_N

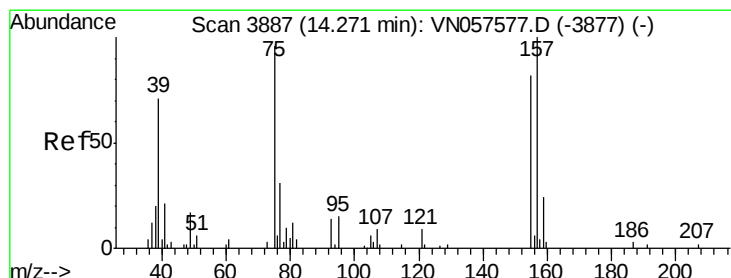
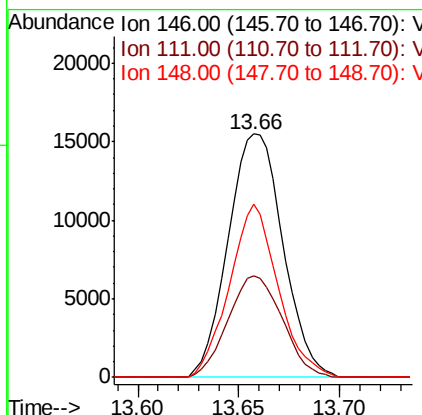
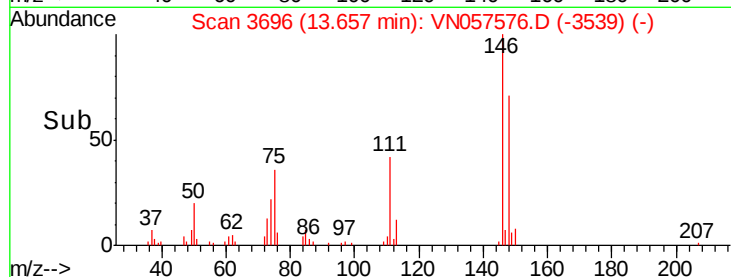
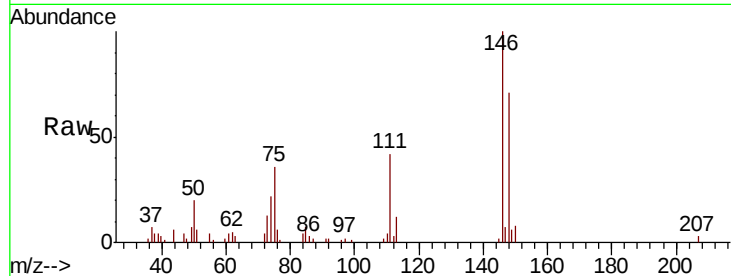
ClientSampled :

VSTDIC005

Tgt Ion:	146	Resp:	29436
Ion Ratio	Lower	Upper	
146	100		
111	41.3	19.9	59.6
148	62.9	31.2	93.6

Manual Integrations
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8/31/2019 10:00:17 AM



#88

1,2-Dibromo-3-Chloropropane

Concen: 3.418 ug/l

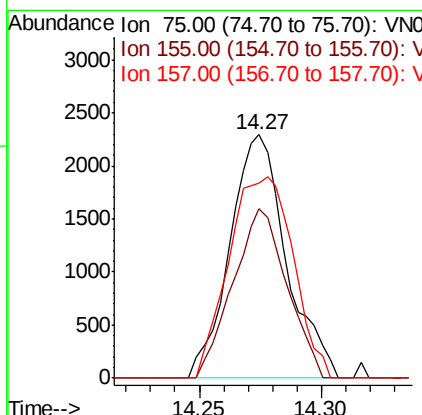
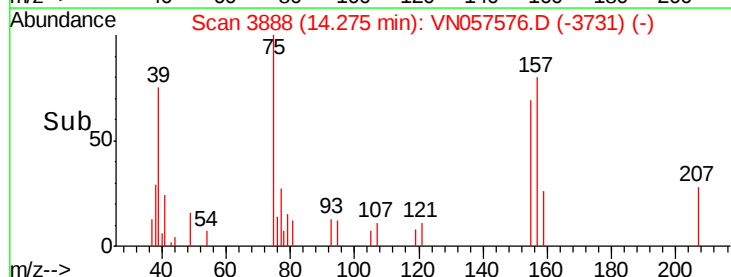
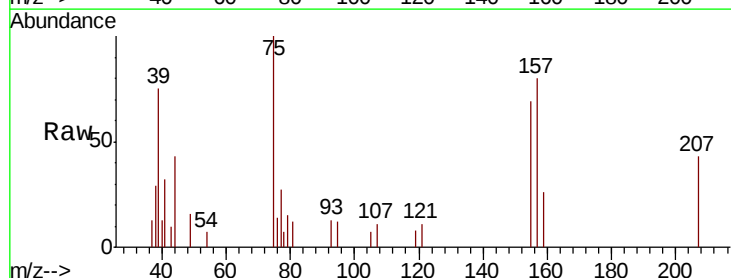
RT: 14.27 min Scan# 3888

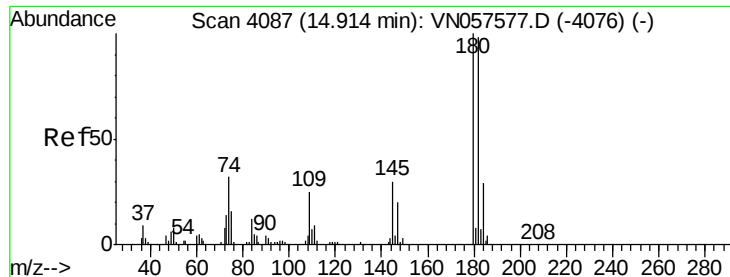
Delta R.T. 0.00 min

Lab File: VN057576.D

Acq: 30 Aug 2019 9:08

Tgt Ion:	75	Resp:	3669
Ion Ratio	Lower	Upper	
75	100		
155	66.7	66.5	99.7
157	0.0	88.4	132.6#





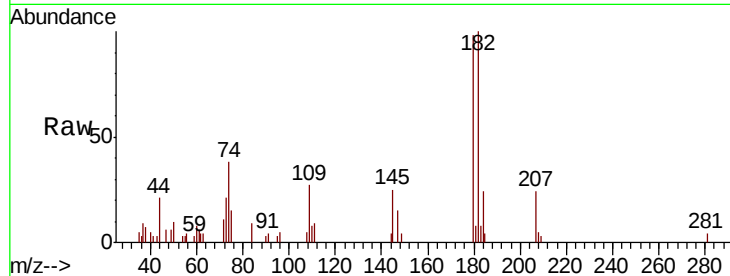
#89
 1,2,4-Trichlorobenzene
 Concen: 3.076 ug/l
 RT: 14.91 min Scan# 4087
 Delta R.T. 0.00 min
 Lab File: VN057576.D
 Acq: 30 Aug 2019 9:08

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	8499		
182	98.9	76.6	115.0	
145	30.0	24.4	36.6	

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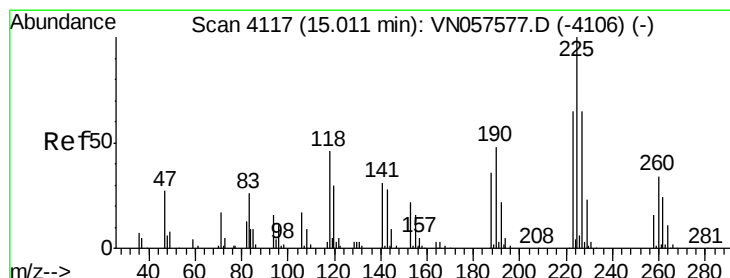
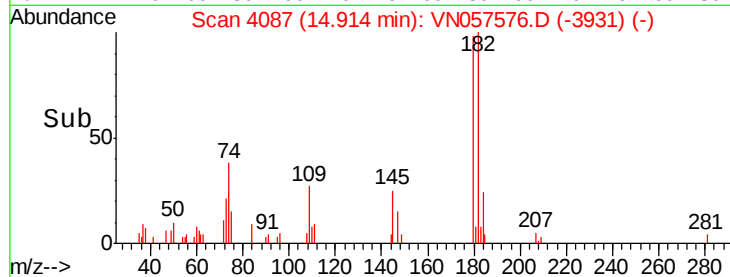
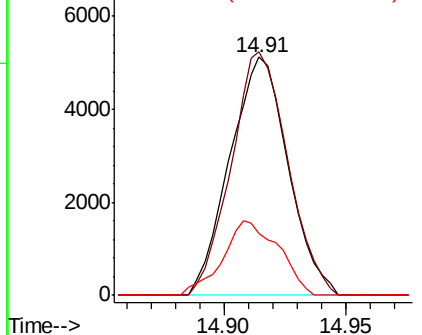


Abundance

Ion 180.00 (179.70 to 180.70): V

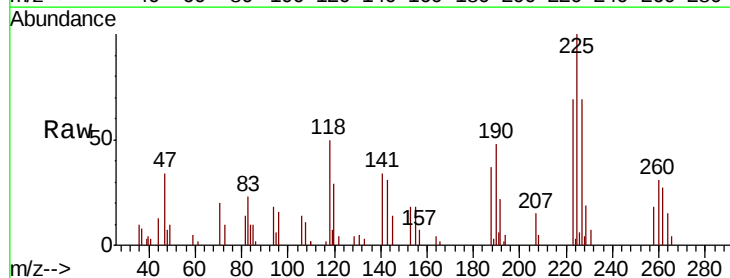
Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V



#90
 Hexachlorobutadiene
 Concen: 5.785 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. 0.00 min
 Lab File: VN057576.D
 Acq: 30 Aug 2019 9:08

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	12385		
223	64.3	0.0	130.6	
227	64.2	0.0	131.0	

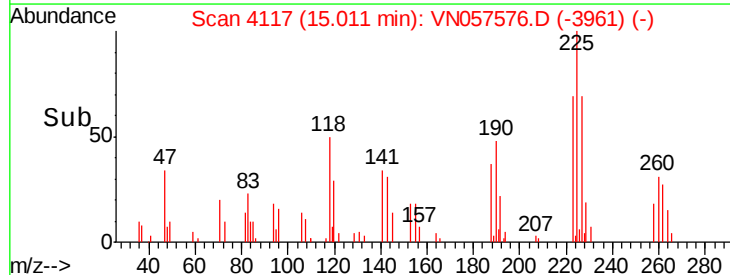
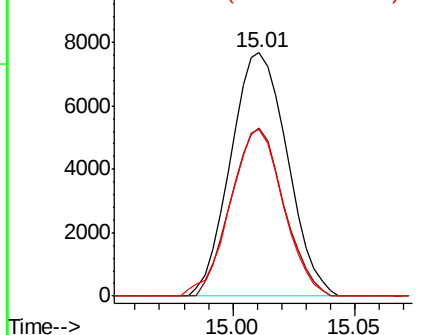


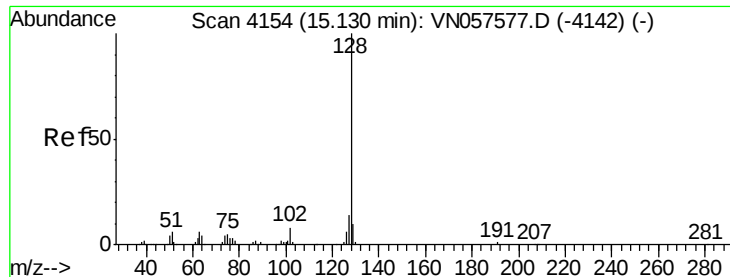
Abundance

Ion 225.00 (224.70 to 225.70): V

Ion 223.00 (222.70 to 223.70): V

Ion 227.00 (226.70 to 227.70): V





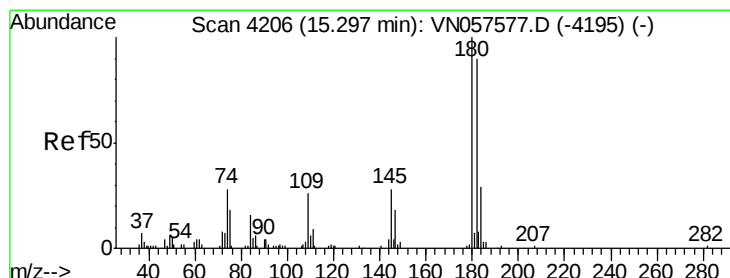
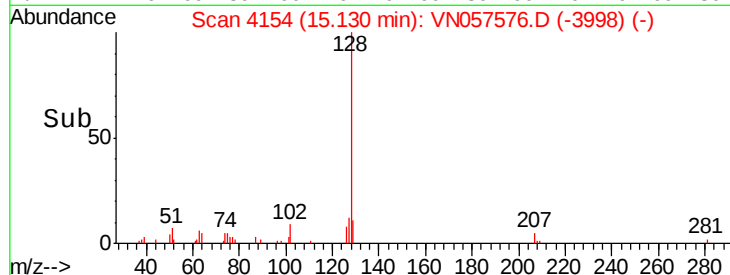
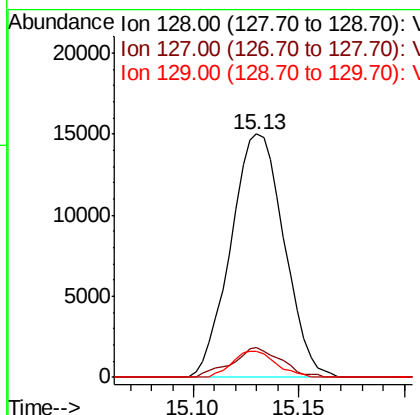
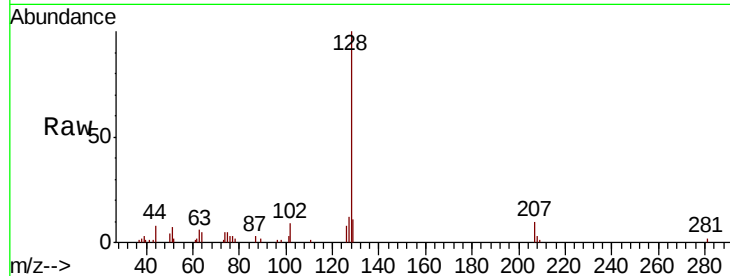
#91
Naphthalene
Concen: 3.026 ug/l
RT: 15.13 min Scan# 4154
Delta R.T. 0.00 min
Lab File: VN057576.D
Acq: 30 Aug 2019 9:08

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tgt Ion	Ratio	Lower	Upper
128	100		
127	11.3	10.6	16.0
129	8.8	8.1	12.1

Manual Integrations
APPROVED

MMDadoda
8/31/2019 10:00:17 AM



#92
1,2,3-Trichlorobenzene
Concen: 3.227 ug/l
RT: 15.30 min Scan# 4206
Delta R.T. 0.00 min
Lab File: VN057576.D
Acq: 30 Aug 2019 9:08

Tgt Ion	Ratio	Lower	Upper
180	100		
182	93.1	0.0	181.0
145	30.8	0.0	62.2

