

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN112019\
 Data File : VN059319.D
 Acq On : 20 Nov 2019 11:46
 Operator : JC/SP
 Sample : VSTDIC005
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Manual Integrations
 APPROVED

MMDadoda
 11/21/2019 11:07:36 AM

Quant Time: Nov 21 06:04:01 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N112019W.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 20 14:34:53 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	411832	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	654725	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	568084	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	231045	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.01	65	22709	4.49	ug/l	0.00
Spiked Amount	50.000		Recovery	=	8.98%	
35) Dibromofluoromethane	7.57	113	17718	4.53	ug/l	0.00
Spiked Amount	50.000		Recovery	=	9.06%	
50) Toluene-d8	10.08	98	69773	4.53	ug/l	0.00
Spiked Amount	50.000		Recovery	=	9.06%	
62) 4-Bromofluorobenzene	12.40	95	22372	4.03	ug/l	0.00
Spiked Amount	50.000		Recovery	=	8.06%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.83	85	25207	6.075	ug/l	98
3) Chloromethane	2.04	50	30750	5.452	ug/l	97
4) Vinyl Chloride	2.17	62	30518	5.581	ug/l	96
5) Bromomethane	2.54	94	18957	6.024	ug/l	94
6) Chloroethane	2.68	64	18432	5.698	ug/l	100
7) Trichlorofluoromethane	3.00	101	36874	5.637	ug/l	96
8) Diethyl Ether	3.39	74	14592	5.490	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	3.73	101	22636	5.740	ug/l	98
10) Methyl Iodide	3.93	142	21088	4.320	ug/l	99
11) Tert butyl alcohol	4.75	59	23629	24.491	ug/l #	87
12) 1,1-Dichloroethene	3.71	96	22597	5.882	ug/l	99
13) Acrolein	3.58	56	20576	41.365	ug/l	99
14) Allyl chloride	4.30	41	41957	5.317	ug/l	99
15) Acrylonitrile	4.96	53	63268	26.350	ug/l	99
16) Acetone	3.79	43	54268	20.614	ug/l	91
17) Carbon Disulfide	4.03	76	70414	5.904	ug/l	98
18) Methyl Acetate	4.30	43	33765	5.404	ug/l	99
19) Methyl tert-butyl Ether	5.01	73	70274	5.313	ug/l	100
20) Methylene Chloride	4.53	84	25105	5.474	ug/l	94
21) trans-1,2-Dichloroethene	5.01	96	23404	5.675	ug/l	96
22) Diisopropyl ether	5.92	45	77583	5.205	ug/l #	86
23) Vinyl Acetate	5.87	43	312884	27.084	ug/l	100
24) 1,1-Dichloroethane	5.82	63	44195	5.309	ug/l	99
25) 2-Butanone	6.81	43	81704	23.549	ug/l	98
26) 2,2-Dichloropropane	6.79	77	38438	5.280	ug/l	99
27) cis-1,2-Dichloroethene	6.81	96	26566	5.553	ug/l	97
28) Bromochloromethane	7.17	49	9420	3.761	ug/l #	98
29) Tetrahydrofuran	7.19	42	57313	25.997	ug/l	98
30) Chloroform	7.35	83	45802	5.735	ug/l	97
31) Cyclohexane	7.63	56	48876	6.201	ug/l #	79
32) 1,1,1-Trichloroethane	7.55	97	37868	5.640	ug/l	98
36) 1,1-Dichloropropene	7.77	75	32207	5.263	ug/l	99
37) Ethyl Acetate	6.91	43	34346	5.045	ug/l	98
38) Carbon Tetrachloride	7.75	117	32714	5.371	ug/l	94

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 Response via : Initial Calibration

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

39) Methylcyclohexane	9.07	83	40169	5.656	ug/l	96
40) Benzene	8.02	78	98760	5.359	ug/l	100
41) Methacrylonitrile	7.16	41	13563m	4.581	ug/l	
42) 1,2-Dichloroethane	8.11	62	32809	5.191	ug/l	98
43) Isopropyl Acetate	8.15	43	53805	4.957	ug/l	99
44) Trichloroethene	8.82	130	24602	5.431	ug/l	97
45) 1,2-Dichloropropane	9.11	63	26101	5.214	ug/l	98
46) Dibromomethane	9.20	93	16420	5.264	ug/l	100
47) Bromodichloromethane	9.39	83	31947	5.129	ug/l	95
48) Methyl methacrylate	9.19	41	22528	4.640	ug/l	99
49) 1,4-Dioxane	9.19	88	7451	86.360	ug/l	94
51) 4-Methyl-2-Pentanone	9.98	43	158339	25.783	ug/l	99
52) Toluene	10.15	92	59393	5.377	ug/l	96
53) t-1,3-Dichloropropene	10.37	75	35598	4.947	ug/l	98
54) cis-1,3-Dichloropropene	9.83	75	39850	5.148	ug/l	96
55) 1,1,2-Trichloroethane	10.56	97	23667	5.294	ug/l	96
56) Ethyl methacrylate	10.42	69	31035	4.677	ug/l	97
57) 1,3-Dichloropropane	10.70	76	39623	5.150	ug/l	97
58) 2-Chloroethyl Vinyl ether	9.69	63	45141	18.145	ug/l	100
59) 2-Hexanone	10.75	43	108871	23.096	ug/l	100
60) Dibromochloromethane	10.90	129	22584	4.778	ug/l	99
61) 1,2-Dibromoethane	11.00	107	22850	5.049	ug/l	99
64) Tetrachloroethene	10.63	164	22229	5.755	ug/l	97
65) Chlorobenzene	11.43	112	61188	5.525	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.51	131	22189	5.341	ug/l	97
67) Ethyl Benzene	11.51	91	108788	5.537	ug/l	99
68) m/p-Xylenes	11.62	106	76818	10.437	ug/l	96
69) o-Xylene	11.95	106	38255	5.378	ug/l	95
70) Styrene	11.96	104	54600	4.881	ug/l	99
71) Bromoform	12.13	173	14798	4.580	ug/l #	98
73) Isopropylbenzene	12.25	105	100788	5.997	ug/l	98
74) N-amyl acetate	12.07	43	35379	4.968	ug/l	97
75) 1,1,2,2-Tetrachloroethane	12.51	83	33134	5.789	ug/l	99
76) 1,2,3-Trichloropropane	12.55	75	28026m	5.328	ug/l	
77) Bromobenzene	12.53	156	23920	5.665	ug/l	97
78) n-propylbenzene	12.59	91	109897	5.711	ug/l	100
79) 2-Chlorotoluene	12.68	91	68347	5.725	ug/l	99
80) 1,3,5-Trimethylbenzene	12.73	105	82425	5.788	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.30	75	9865	4.954	ug/l	97
82) 4-Chlorotoluene	12.78	91	65582	5.477	ug/l	97
83) tert-Butylbenzene	12.99	119	70553	5.737	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	80248	5.824	ug/l	100
85) sec-Butylbenzene	13.17	105	93547	5.849	ug/l	100
86) p-Isopropyltoluene	13.29	119	81946	5.803	ug/l	99
87) 1,3-Dichlorobenzene	13.28	146	40783	5.640	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	39362	5.441	ug/l	93
89) n-Butylbenzene	13.62	91	67441	5.456	ug/l	100
90) Hexachloroethane	13.88	117	15086	5.320	ug/l	96
91) 1,2-Dichlorobenzene	13.66	146	39831	5.600	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	14.27	75	7030	5.442	ug/l	88

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ALS Vial : 4 Sample Multiplier: 1

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MSVOA_N
ClientSampleId :
VSTDICC005

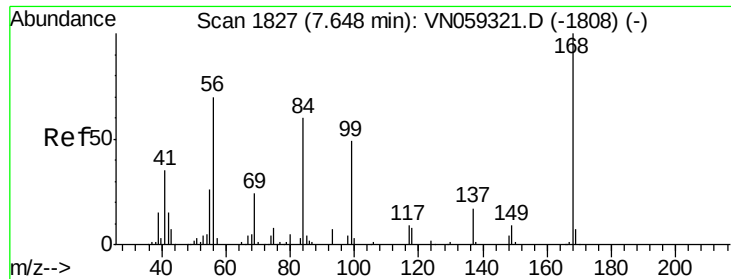
Manual Integrations
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	19433	5.100	ug/l	97
94) Hexachlorobutadiene	15.01	225	14929	6.087	ug/l	97
95) Naphthalene	15.13	128	51508	4.922	ug/l	99
96) 1,2,3-Trichlorobenzene	15.30	180	21754	5.457	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.00 min

Lab File: VN059319.D

Acq: 20 Nov 2019 11:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion:168 Resp: 411832

Ion Ratio Lower Upper

168 100

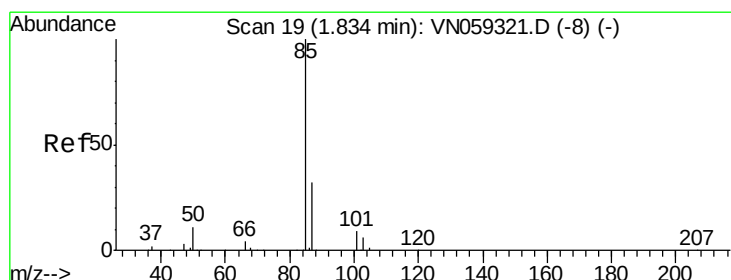
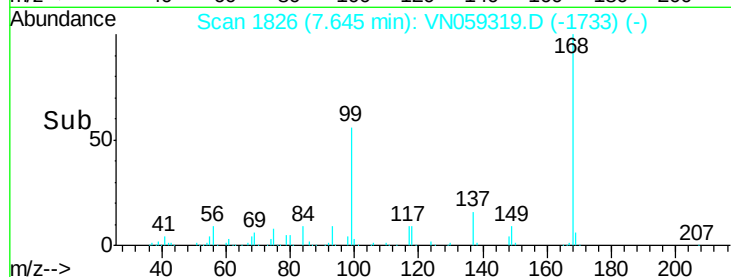
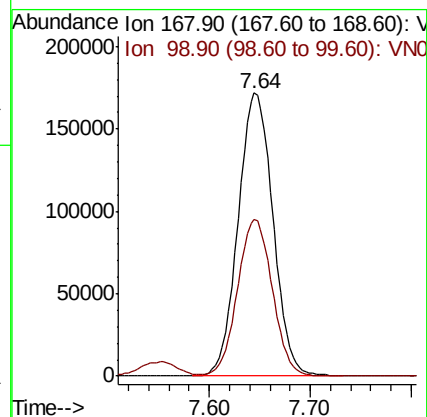
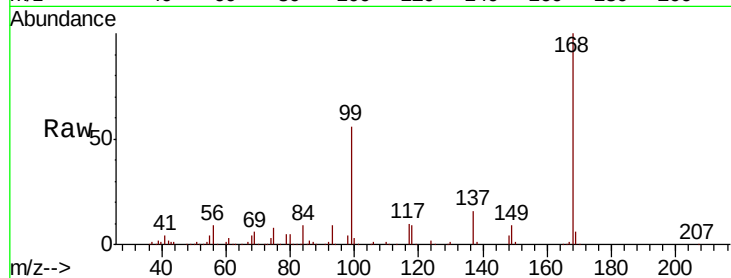
99 55.3 45.7 68.5

Manual Integrations

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11/21/2019 11:07:36 AM



#2

Dichlorodifluoromethane

Concen: 6.075 ug/l

RT: 1.83 min Scan# 19

Delta R.T. -0.00 min

Lab File: VN059319.D

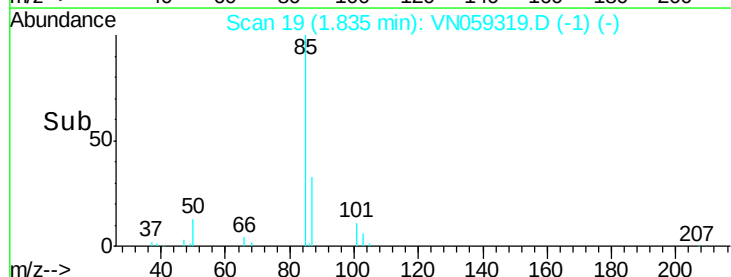
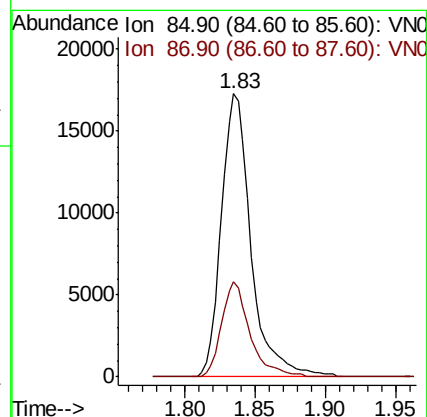
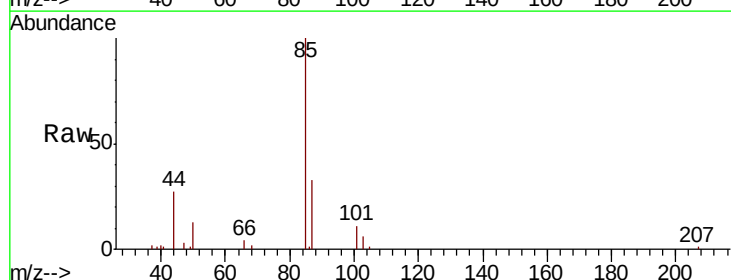
Acq: 20 Nov 2019 11:46

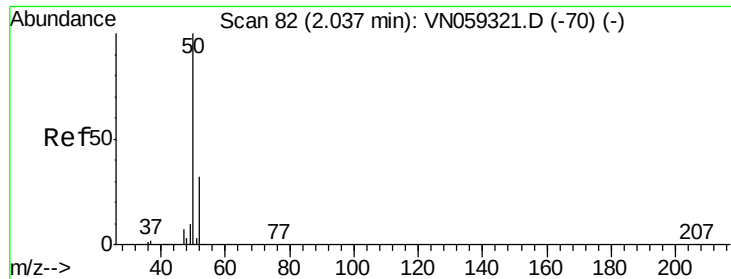
Tgt Ion: 85 Resp: 25207

Ion Ratio Lower Upper

85 100

87 33.4 16.3 48.9





#3

Chloromethane

Concen: 5.452 ug/l

RT: 2.04 min Scan# 82

Delta R.T. -0.00 min

Lab File: VN059319.D

Acq: 20 Nov 2019 11:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion: 50 Resp: 30750

Ion Ratio Lower Upper

50 100

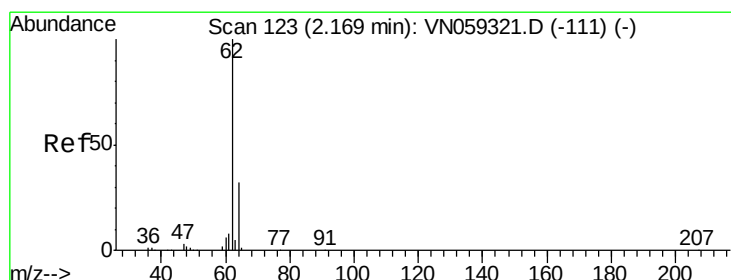
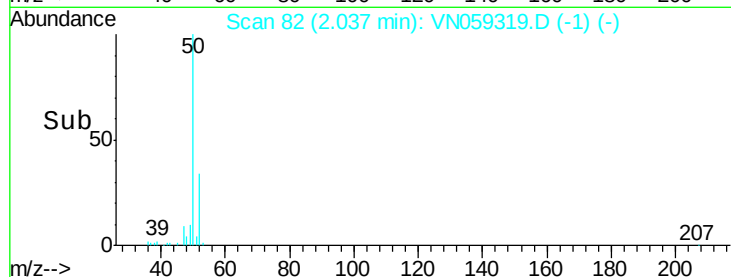
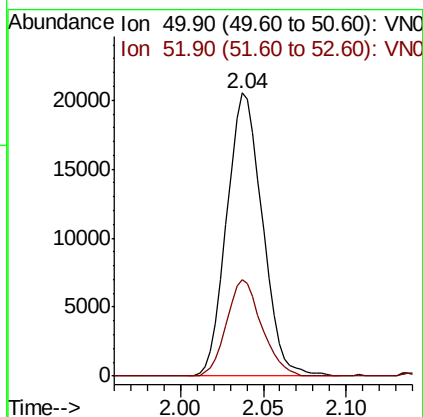
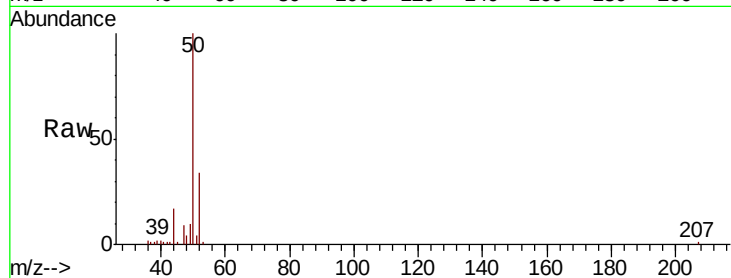
52 34.3 26.0 39.0

Manual Integrations

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#4

Vinyl Chloride

Concen: 5.581 ug/l

RT: 2.17 min Scan# 123

Delta R.T. -0.00 min

Lab File: VN059319.D

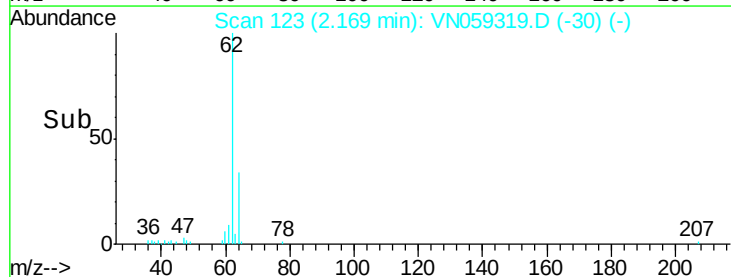
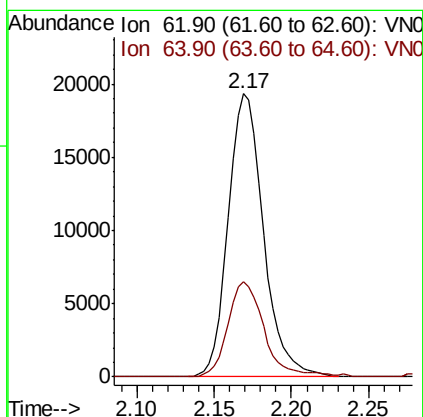
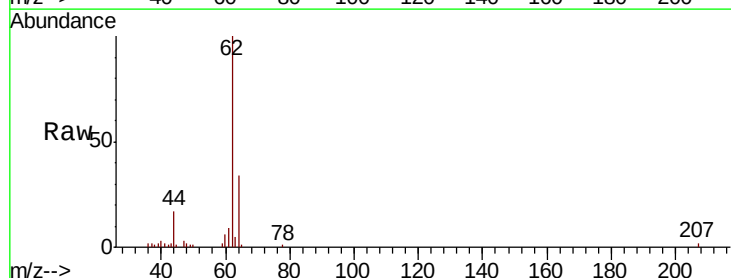
Acq: 20 Nov 2019 11:46

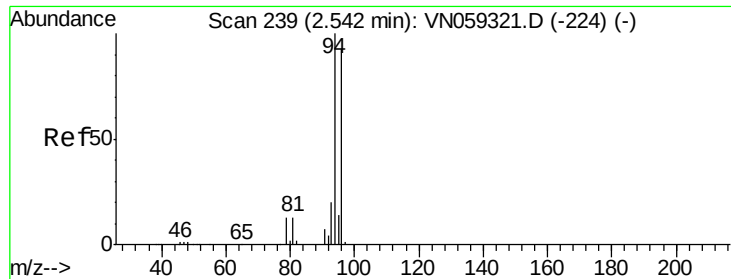
Tgt Ion: 62 Resp: 30518

Ion Ratio Lower Upper

62 100

64 33.8 25.4 38.2





#5

Bromomethane

Concen: 6.024 ug/l

RT: 2.54 min Scan# 239

Delta R.T. 0.00 min

Lab File: VN059319.D

Acq: 20 Nov 2019 11:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion: 94 Resp: 18957

Ion Ratio Lower Upper

94 100

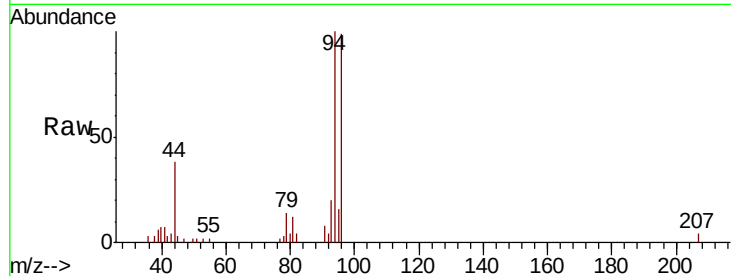
96 98.7 74.2 111.2

Manual Integrations

APPROVED

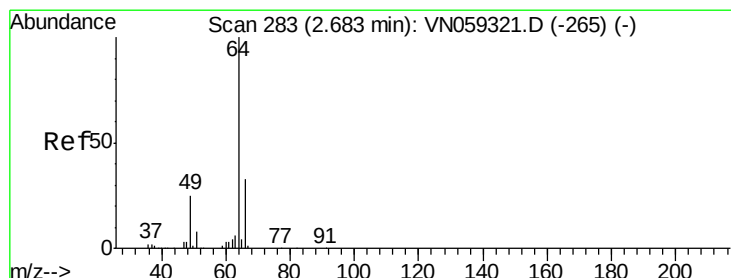
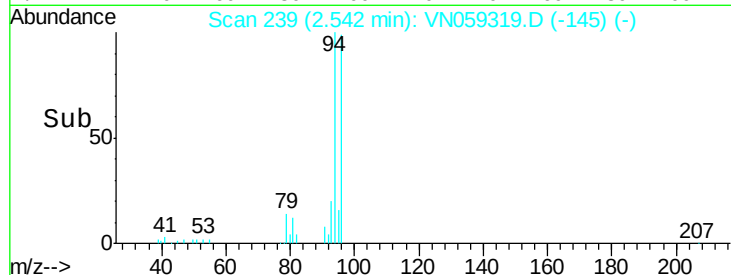
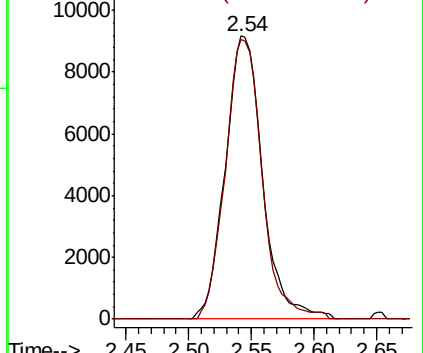
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Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#6

Chloroethane

Concen: 5.698 ug/l

RT: 2.68 min Scan# 283

Delta R.T. 0.00 min

Lab File: VN059319.D

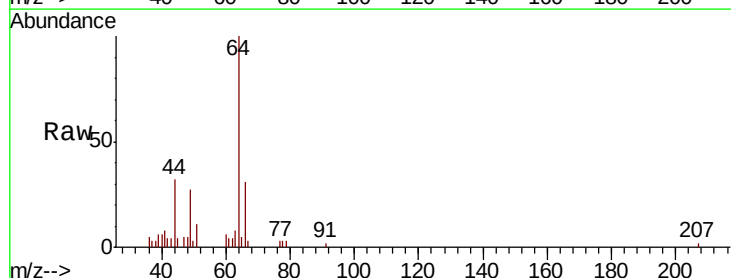
Acq: 20 Nov 2019 11:46

Tgt Ion: 64 Resp: 18432

Ion Ratio Lower Upper

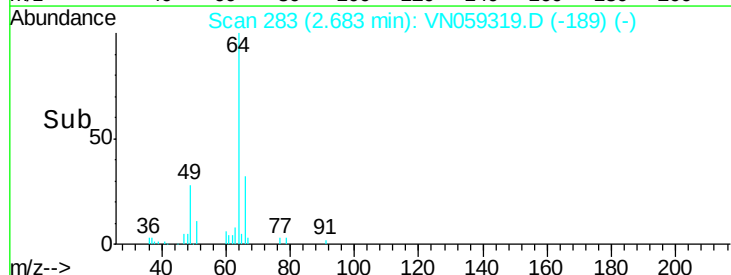
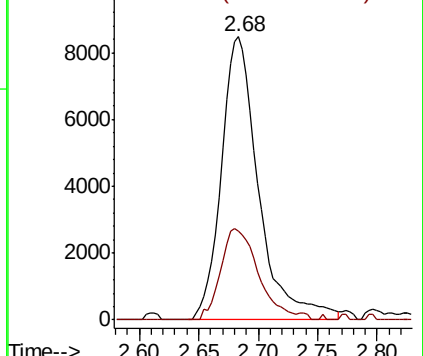
64 100

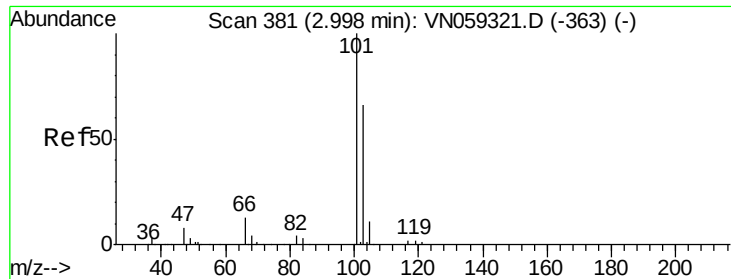
66 31.4 25.2 37.8



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0





#7

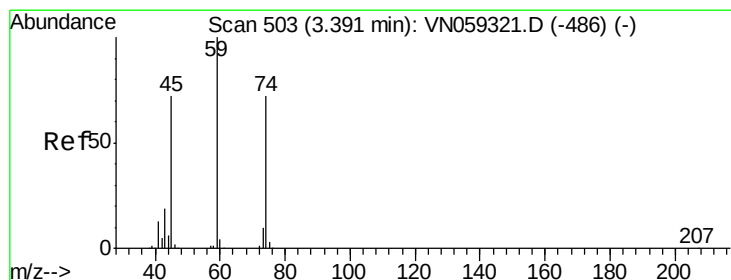
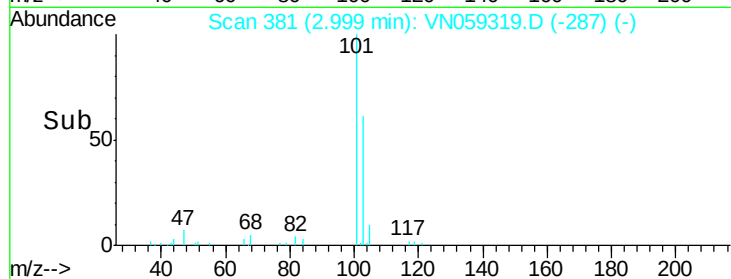
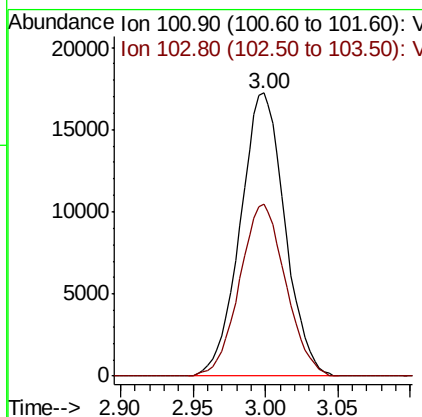
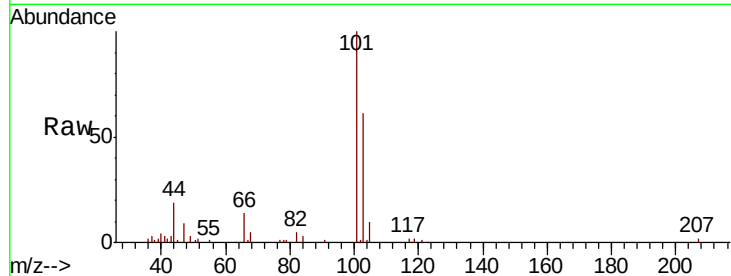
Trichlorofluoromethane
 Concen: 5.637 ug/l
 RT: 3.00 min Scan# 381
 Delta R.T. 0.00 min
 Lab File: VN059319.D
 Acq: 20 Nov 2019 11:46

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
101	100		
103	60.8	51.2	76.8

Manual Integrations
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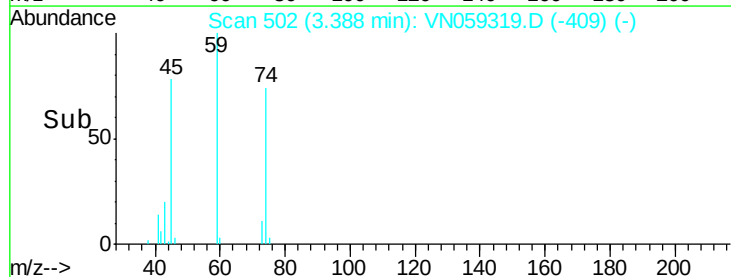
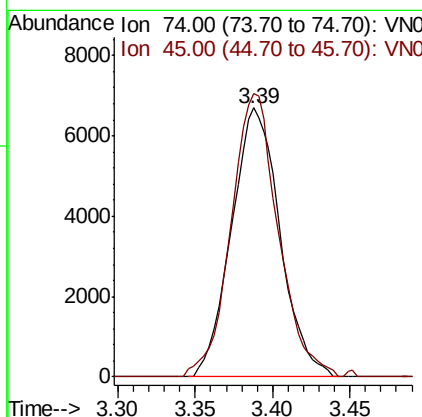
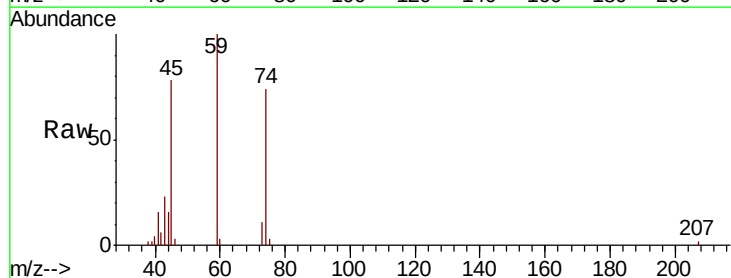
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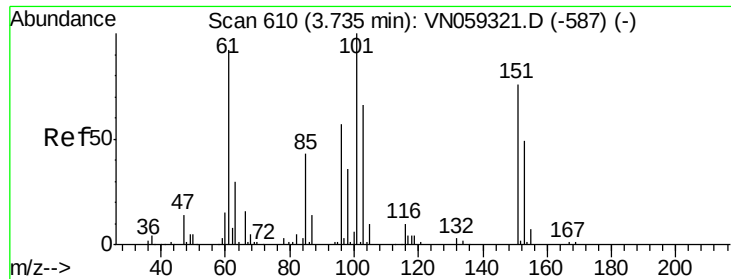


#8

Diethyl Ether
 Concen: 5.490 ug/l
 RT: 3.39 min Scan# 502
 Delta R.T. -0.00 min
 Lab File: VN059319.D
 Acq: 20 Nov 2019 11:46

Tgt Ion	Ratio	Lower	Upper
74	100		
45	102.7	51.6	154.9





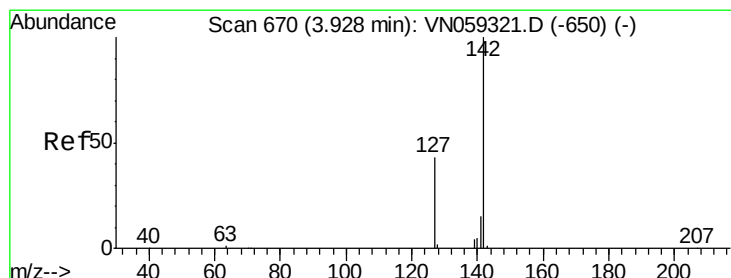
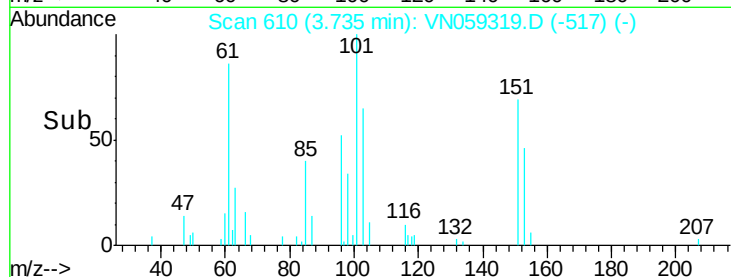
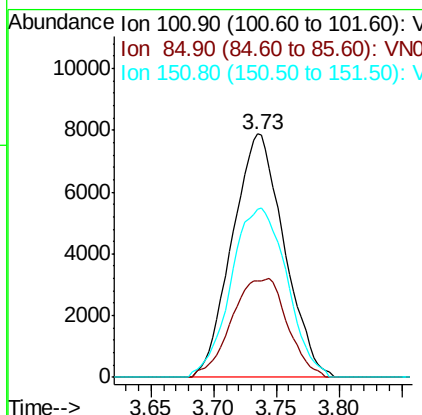
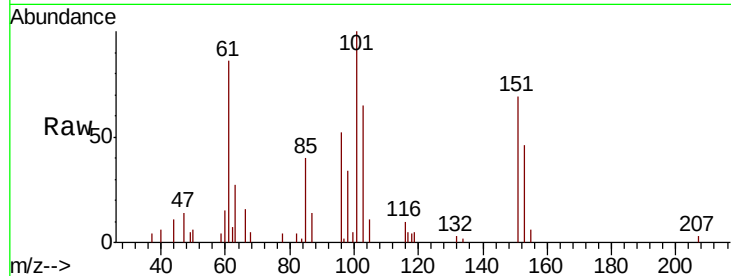
#9
 1,1,2-Trichlorotrifluoroethane
 Concen: 5.740 ug/l
 RT: 3.73 min Scan# 610
 Delta R.T. -0.00 min
 Lab File: VN059319.D
 Acq: 20 Nov 2019 11:46

Instrument :
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 VSTDIC005

Tot Ion	Ratio	Resp	Lower	Upper
101	100	22636		
85	43.5		35.5	53.3
151	75.1		62.2	93.2

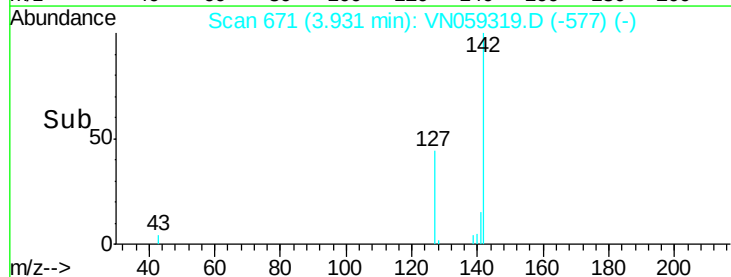
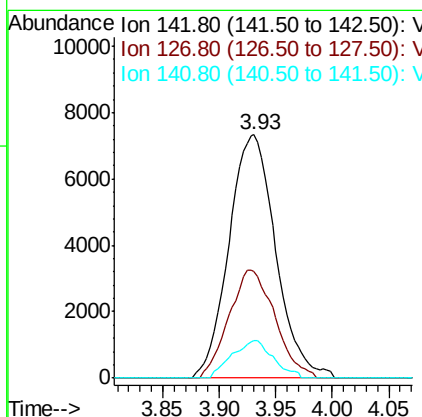
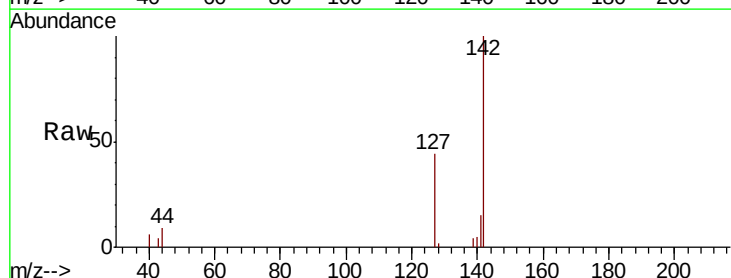
Manual Integrations
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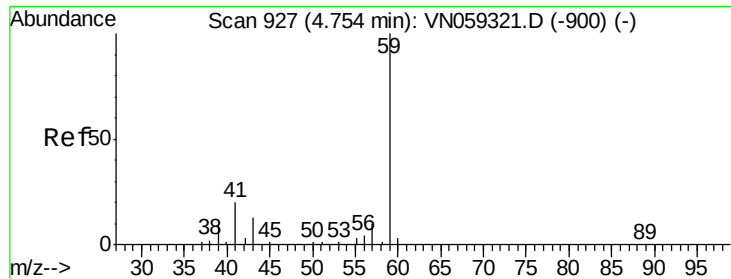
MMDadoda
 11/21/2019 11:07:36 AM



#10
 Methyl Iodide
 Concen: 4.320 ug/l
 RT: 3.93 min Scan# 671
 Delta R.T. 0.00 min
 Lab File: VN059319.D
 Acq: 20 Nov 2019 11:46

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	21088		
127	43.6		34.2	51.2
141	13.6		11.4	17.0





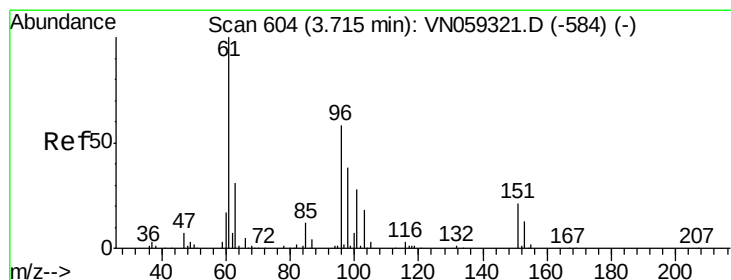
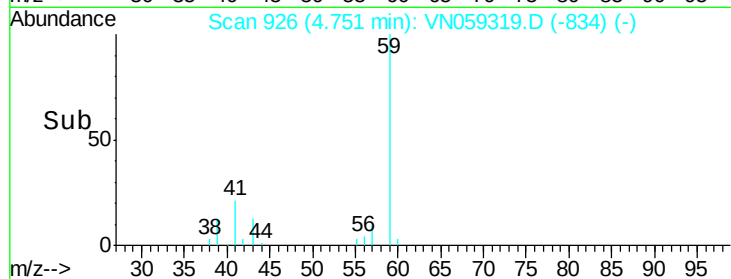
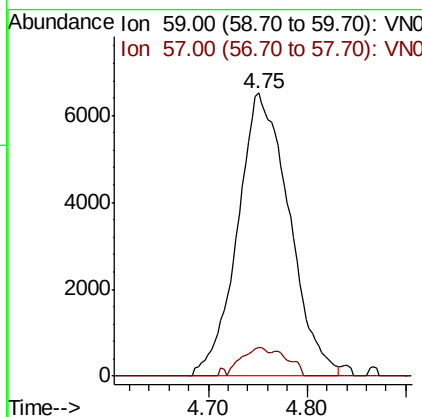
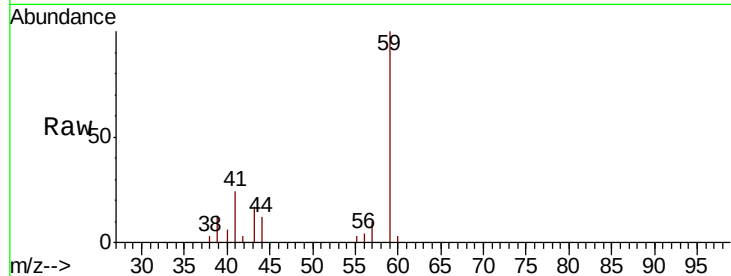
#11
Tert butyl alcohol
Concen: 24.491 ug/l
RT: 4.75 min Scan# 926
Delta R.T. -0.00 min
Lab File: VN059319.D
Acq: 20 Nov 2019 11:46

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
59	100		
57	5.6	8.3	12.5#

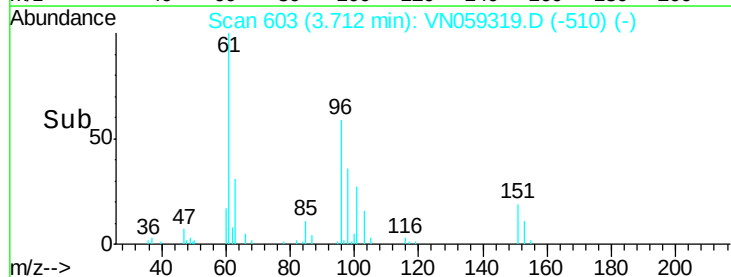
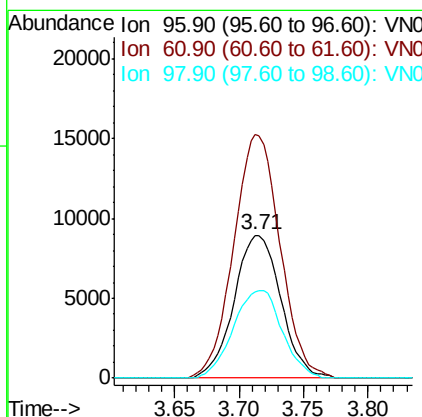
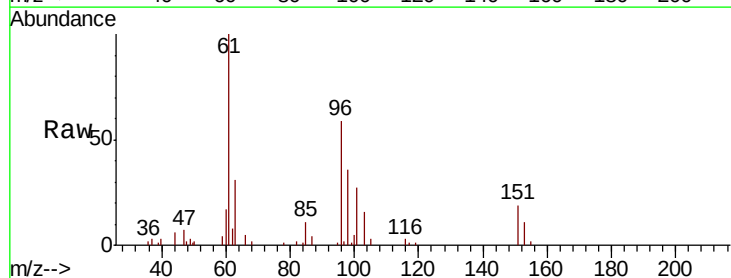
Manual Integrations
APPROVED

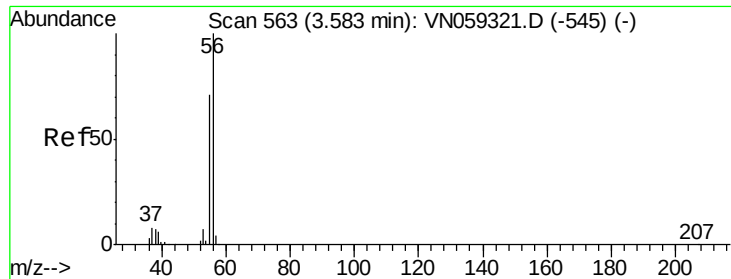
MMDadoda
11/21/2019 11:07:36 AM



#12
1,1-Dichloroethene
Concen: 5.882 ug/l
RT: 3.71 min Scan# 603
Delta R.T. -0.00 min
Lab File: VN059319.D
Acq: 20 Nov 2019 11:46

Tgt Ion	Ratio	Lower	Upper
96	100		
61	170.2	136.5	204.7
98	60.5	50.2	75.4





#13

Acrolein

Concen: 41.365 ug/l

RT: 3.58 min Scan# 563

Delta R.T. 0.00 min

Lab File: VN059319.D

Acq: 20 Nov 2019 11:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion: 56 Resp: 20576

Ion Ratio Lower Upper

56 100

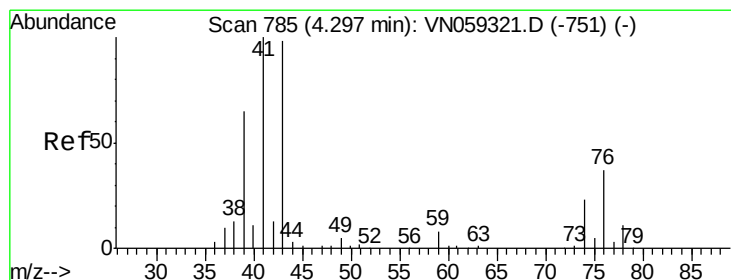
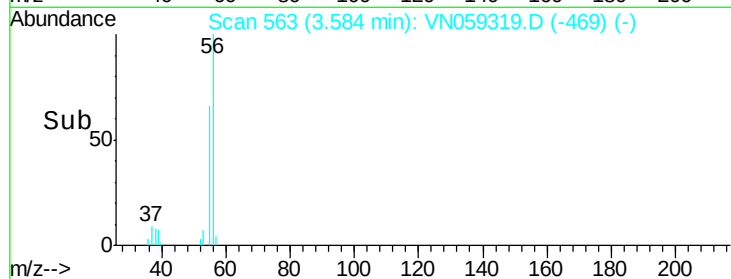
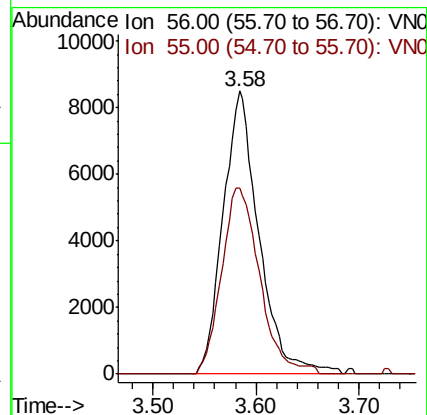
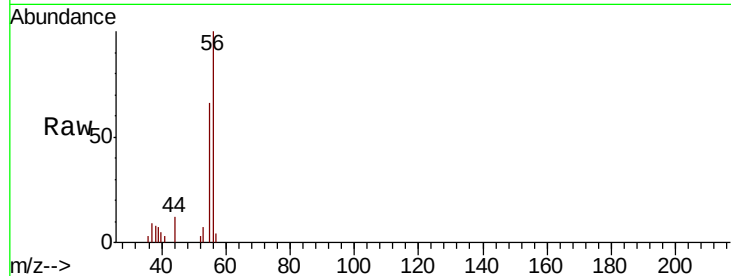
55 70.0 56.4 84.6

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#14

Allyl chloride

Concen: 5.317 ug/l

RT: 4.30 min Scan# 785

Delta R.T. -0.00 min

Lab File: VN059319.D

Acq: 20 Nov 2019 11:46

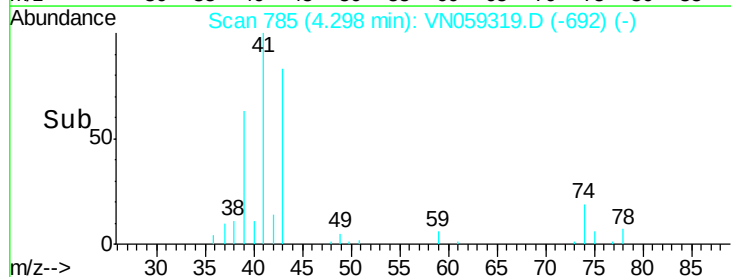
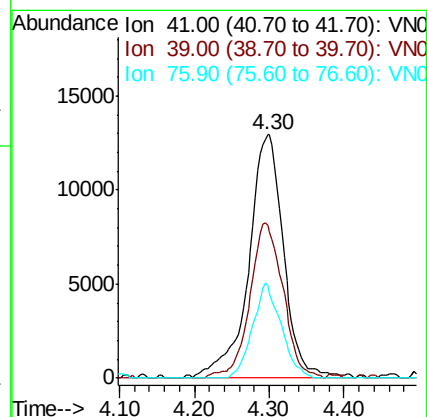
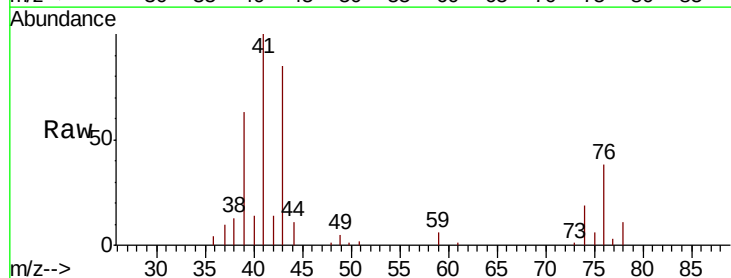
Tgt Ion: 41 Resp: 41957

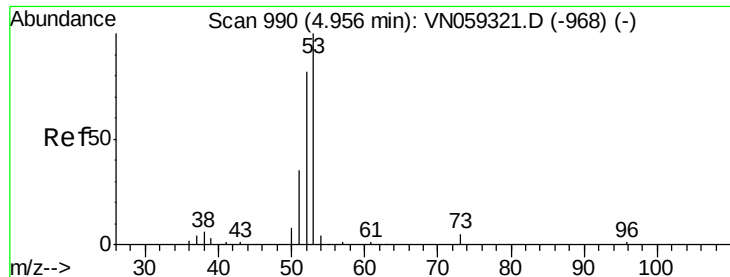
Ion Ratio Lower Upper

41 100

39 60.8 49.1 73.7

76 32.0 24.9 37.3





#15

Acrylonitrile

Concen: 26.350 ug/l

RT: 4.96 min Scan# 991

Delta R.T. 0.01 min

Lab File: VN059319.D

Acq: 20 Nov 2019 11:46

Instrument :

MSVOA_N

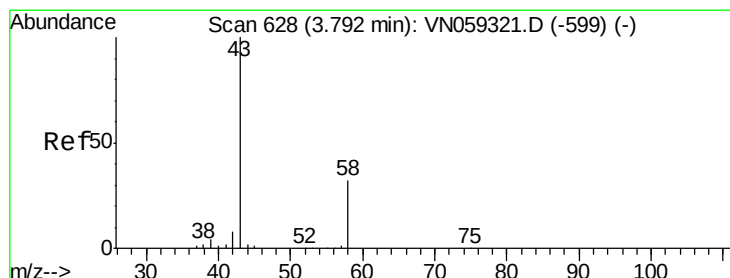
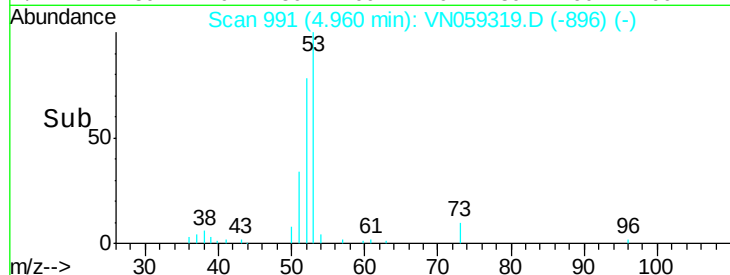
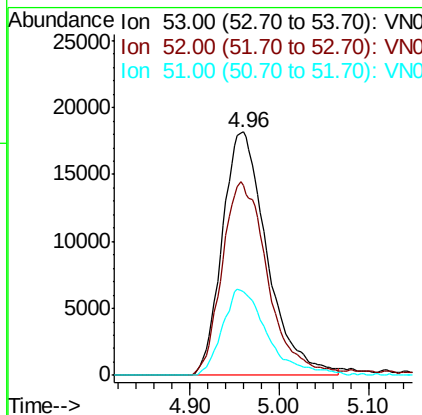
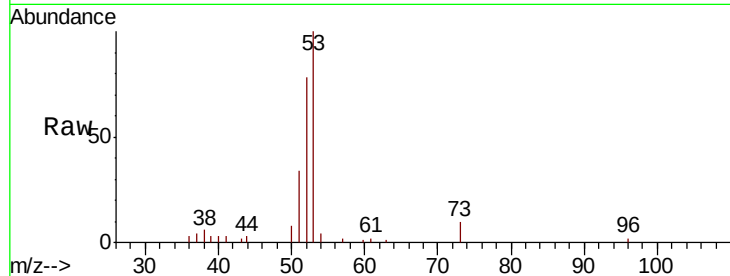
ClientSampleId :

VSTDIC005

Tot Ion:	53	Resp:	63268
Ion	Ratio	Lower	Upper
53	100		
52	80.8	65.0	97.6
51	34.7	28.0	42.0

Manual Integrations
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#16

Acetone

Concen: 20.614 ug/l

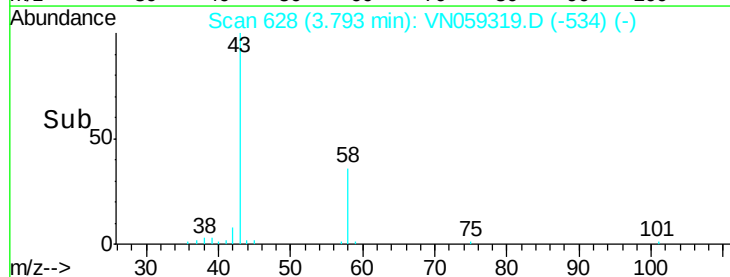
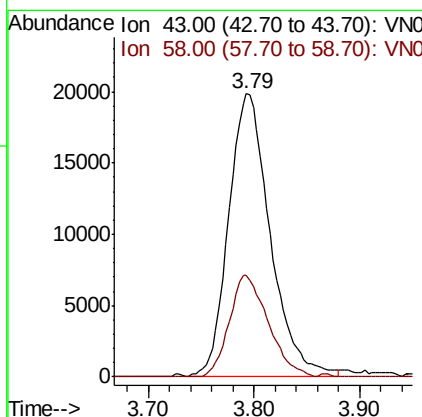
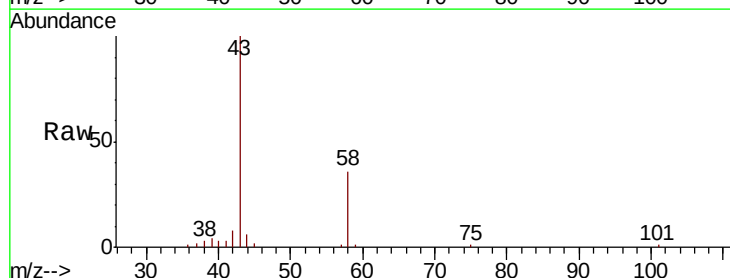
RT: 3.79 min Scan# 628

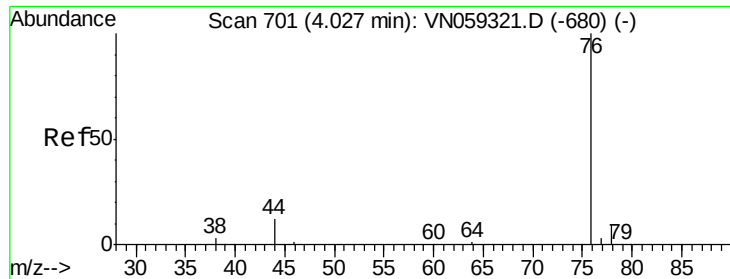
Delta R.T. 0.00 min

Lab File: VN059319.D

Acq: 20 Nov 2019 11:46

Tgt Ion:	43	Resp:	54268
Ion	Ratio	Lower	Upper
43	100		
58	35.9	24.9	37.3





#17

Carbon Disulfide

Concen: 5.904 ug/l

RT: 4.03 min Scan# 701

Delta R.T. -0.00 min

Lab File: VN059319.D

Acq: 20 Nov 2019 11:46

Tot Ion: 76 Resp: 70414

Ion Ratio Lower Upper

76 100

78 9.8 7.4 11.0

Instrument :

MSVOA_N

ClientSampleId :

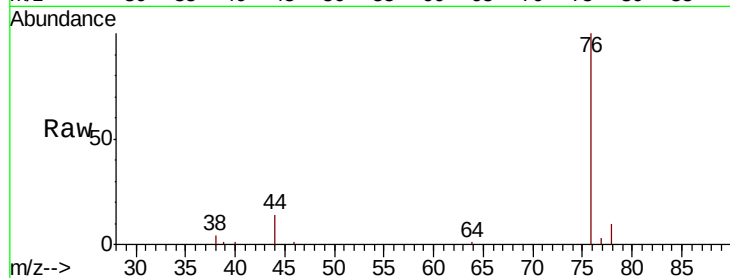
VSTDIC005

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Abundance Ion 75.90 (75.60 to 76.60): VNO

Ion 77.90 (77.60 to 78.60): VNO

4.03

30000

25000

20000

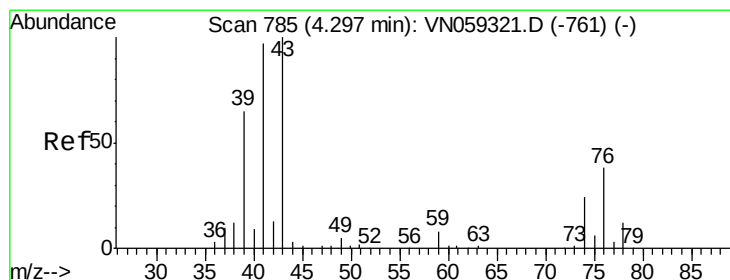
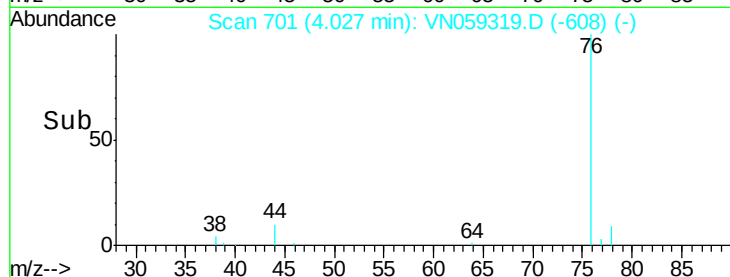
15000

10000

5000

0

Time-->



#18

Methyl Acetate

Concen: 5.404 ug/l

RT: 4.30 min Scan# 786

Delta R.T. 0.00 min

Lab File: VN059319.D

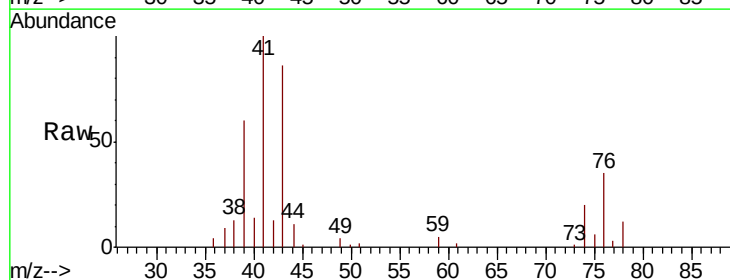
Acq: 20 Nov 2019 11:46

Tgt Ion: 43 Resp: 33765

Ion Ratio Lower Upper

43 100

74 21.7 17.8 26.8



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 74.00 (73.70 to 74.70): VNO

4.30

12000

10000

8000

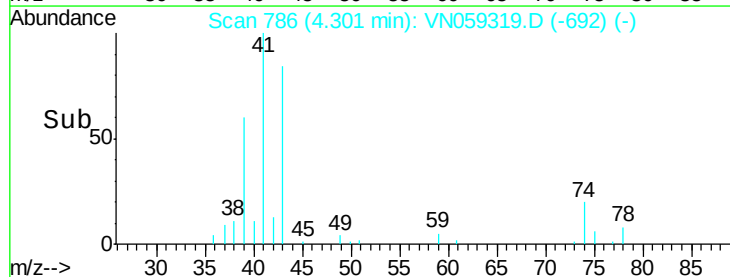
6000

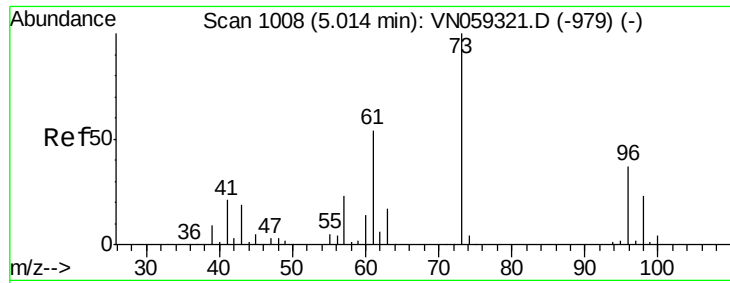
4000

2000

0

Time-->





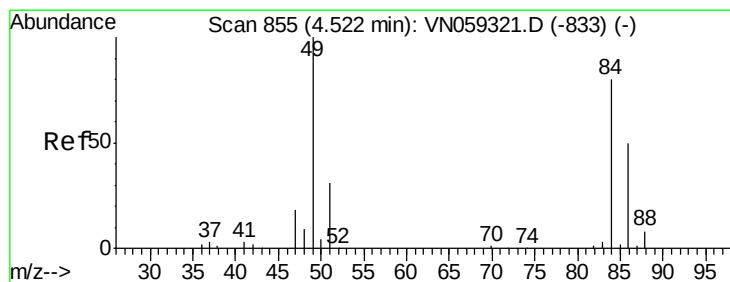
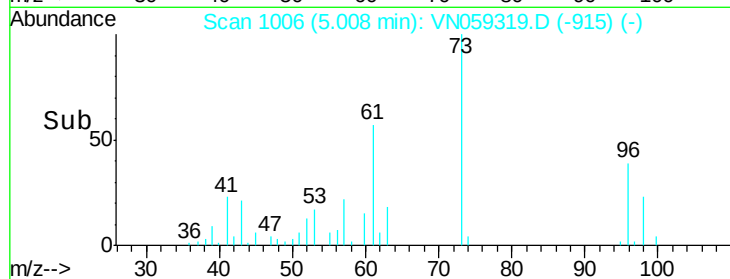
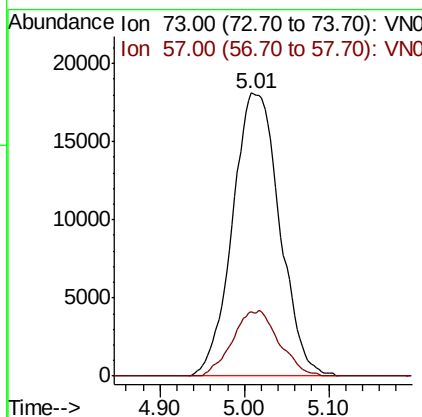
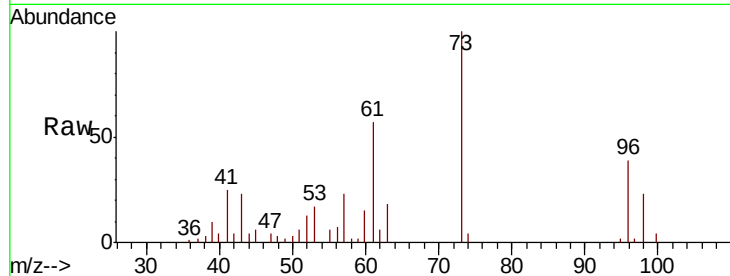
#19
Methyl tert-butyl Ether
Concen: 5.313 ug/l
RT: 5.01 min Scan# 1006
Delta R.T. -0.01 min
Lab File: VN059319.D
Acq: 20 Nov 2019 11:46

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion: 73 Resp: 70274
Ion Ratio Lower Upper
73 100
57 23.0 18.4 27.6

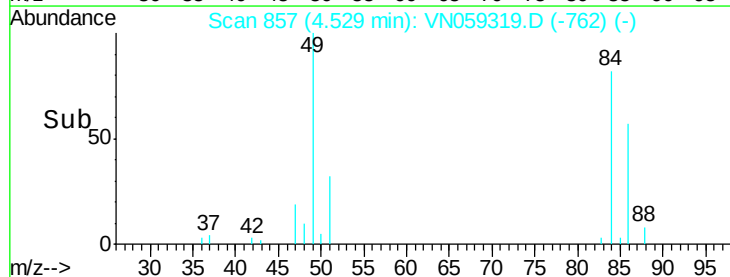
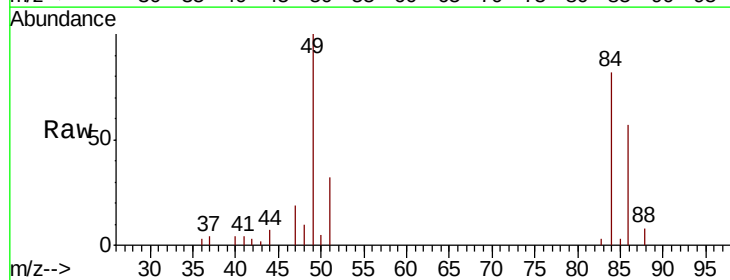
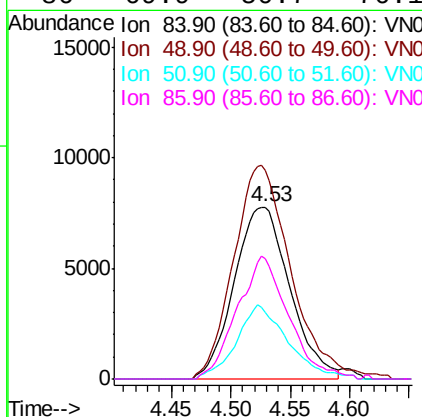
Manual Integrations
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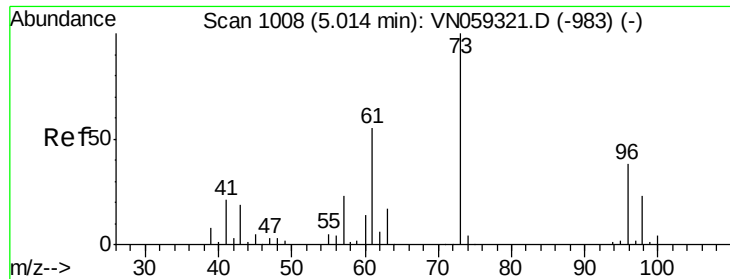
MMDadoda
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#20
Methylene Chloride
Concen: 5.474 ug/l
RT: 4.53 min Scan# 857
Delta R.T. 0.01 min
Lab File: VN059319.D
Acq: 20 Nov 2019 11:46

Tgt Ion: 84 Resp: 25105
Ion Ratio Lower Upper
84 100
49 121.6 102.0 153.0
51 38.6 32.2 48.2
86 69.9 50.7 76.1





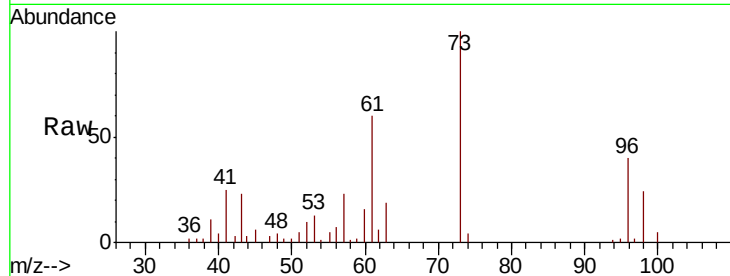
#21
trans-1,2-Dichloroethene
Concen: 5.675 ug/l
RT: 5.01 min Scan# 1008
Delta R.T. 0.00 min
Lab File: VN059319.D
Acq: 20 Nov 2019 11:46

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
96	100		
61	148.3	122.6	183.8
98	58.3	50.3	75.5

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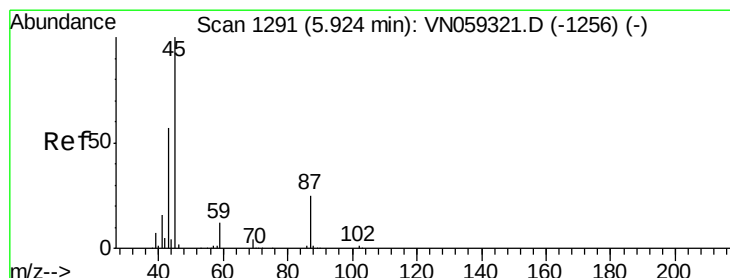
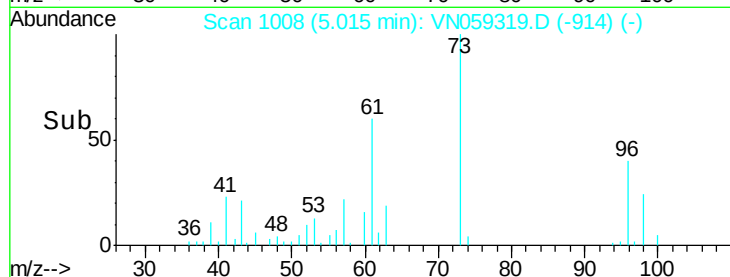
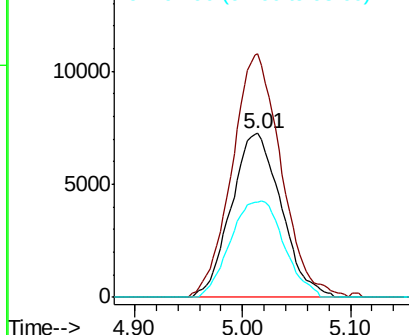


Abundance

Ion 95.90 (95.60 to 96.60): VNC

Ion 60.90 (60.60 to 61.60): VNC

Ion 97.90 (97.60 to 98.60): VNC



#22
Diisopropyl ether
Concen: 5.205 ug/l
RT: 5.92 min Scan# 1290
Delta R.T. -0.00 min
Lab File: VN059319.D
Acq: 20 Nov 2019 11:46

Tgt Ion	Ratio	Lower	Upper
45	100		
43	74.2	46.7	70.1#
87	27.1	20.5	30.7
59	12.1	9.6	14.4

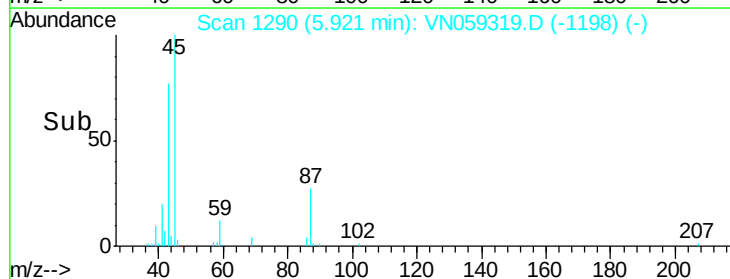
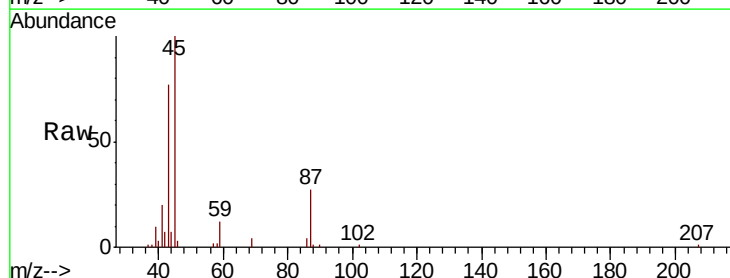
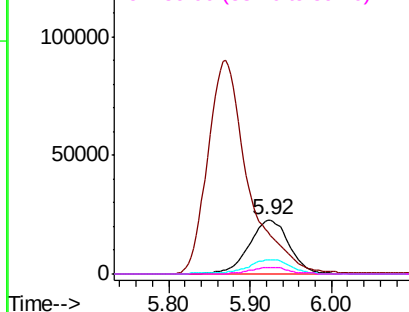
Abundance

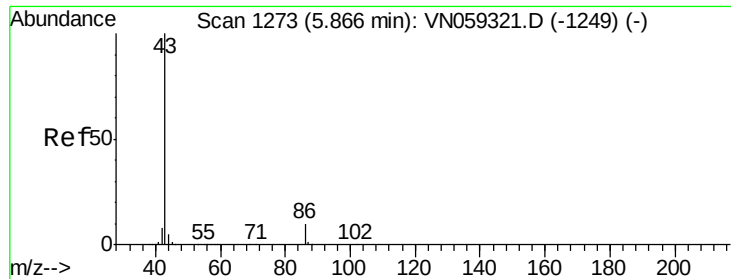
Ion 45.00 (44.70 to 45.70): VNC

Ion 43.00 (42.70 to 43.70): VNC

Ion 87.00 (86.70 to 87.70): VNC

Ion 59.00 (58.70 to 59.70): VNC





#23

Vinyl Acetate

Concen: 27.084 ug/l

RT: 5.87 min Scan# 1274

Delta R.T. 0.00 min

Lab File: VN059319.D

Acq: 20 Nov 2019 11:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion: 43 Resp: 312884

Ion Ratio Lower Upper

43 100

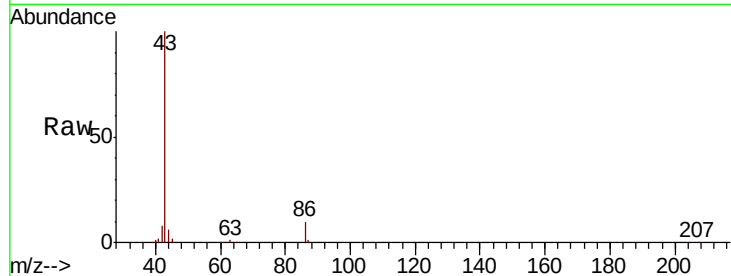
86 9.5 7.7 11.5

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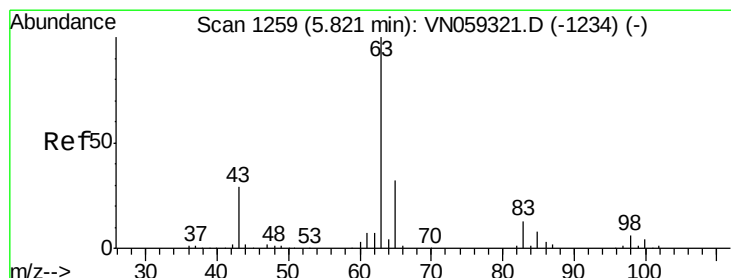
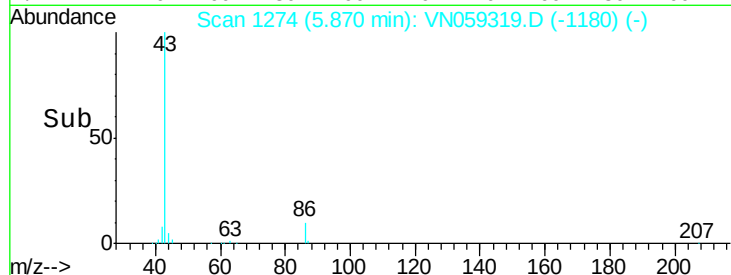
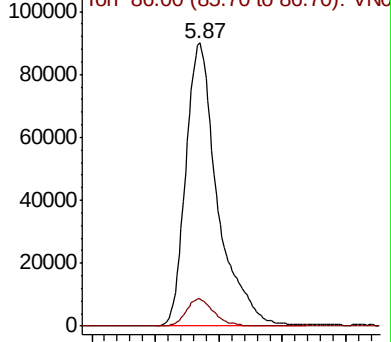
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Abundance Ion 43.00 (42.70 to 43.70): VN059319.D (-1180) (-)



#24

1,1-Dichloroethane

Concen: 5.309 ug/l

RT: 5.82 min Scan# 1259

Delta R.T. 0.00 min

Lab File: VN059319.D

Acq: 20 Nov 2019 11:46

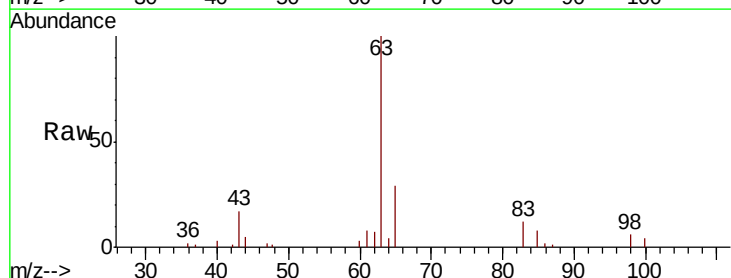
Tgt Ion: 63 Resp: 44195

Ion Ratio Lower Upper

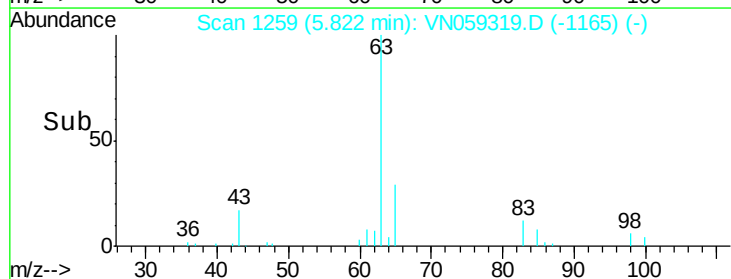
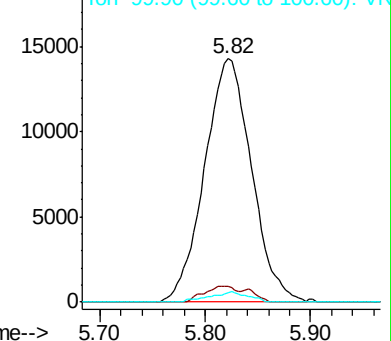
63 100

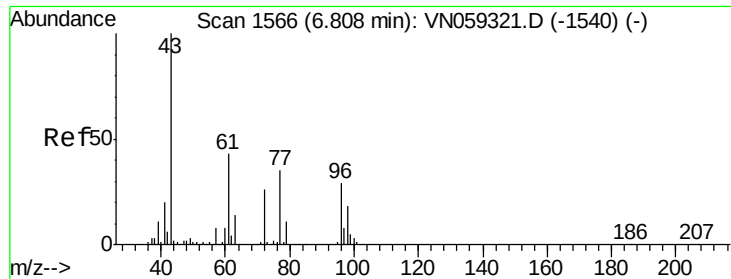
98 6.2 2.8 8.4

100 3.9 1.9 5.7



Abundance Ion 62.90 (62.60 to 63.60): VN059319.D (-1165) (-)





#25

2-Butanone

Concen: 23.549 ug/l

RT: 6.81 min Scan# 1567

Delta R.T. 0.00 min

Lab File: VN059319.D

Acq: 20 Nov 2019 11:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion: 43 Resp: 81704

Ion Ratio Lower Upper

43 100

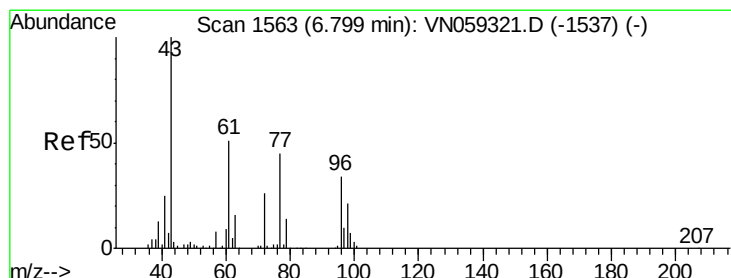
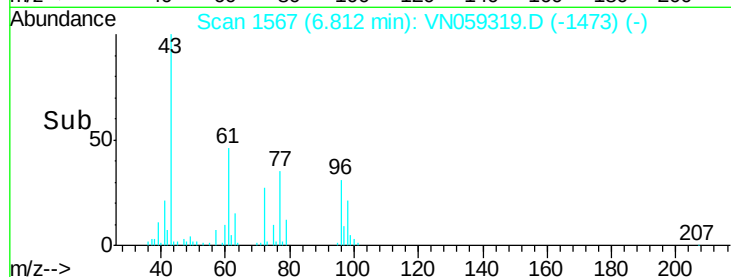
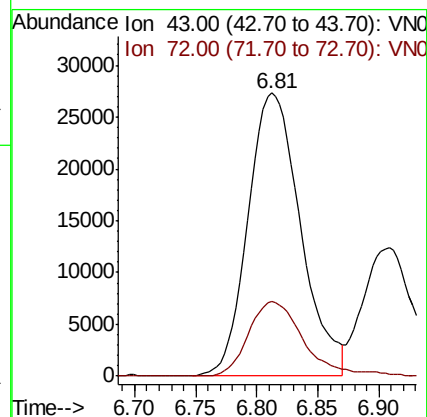
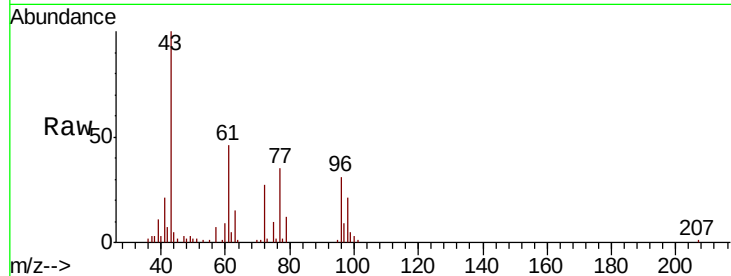
72 26.6 20.3 30.5

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#26

2,2-Dichloropropane

Concen: 5.280 ug/l

RT: 6.79 min Scan# 1561

Delta R.T. -0.00 min

Lab File: VN059319.D

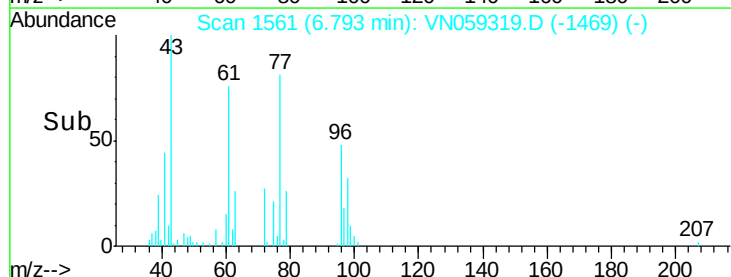
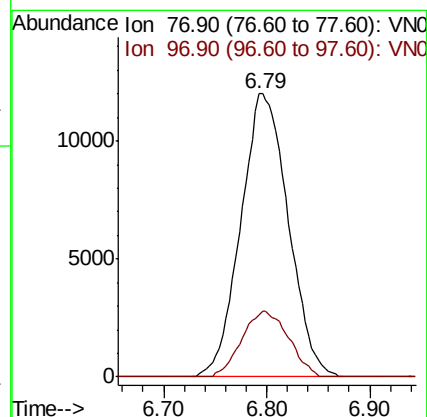
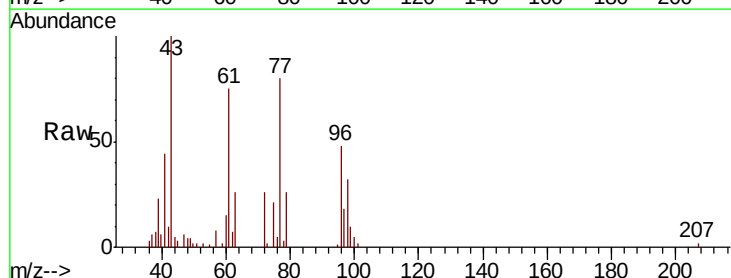
Acq: 20 Nov 2019 11:46

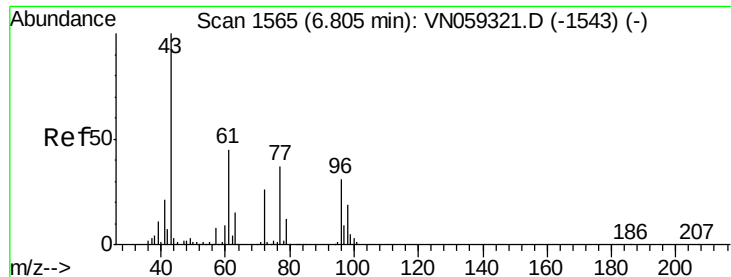
Tgt Ion: 77 Resp: 38438

Ion Ratio Lower Upper

77 100

97 22.8 11.2 33.6





#27

cis-1,2-Dichloroethene

Concen: 5.553 ug/l

RT: 6.81 min Scan# 1565

Delta R.T. 0.00 min

Lab File: VN059319.D

Acq: 20 Nov 2019 11:46

Instrument :

MSVOA_N

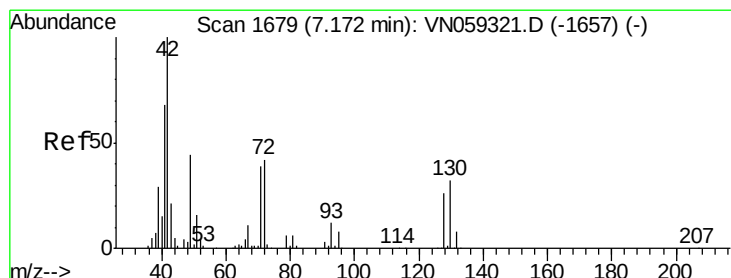
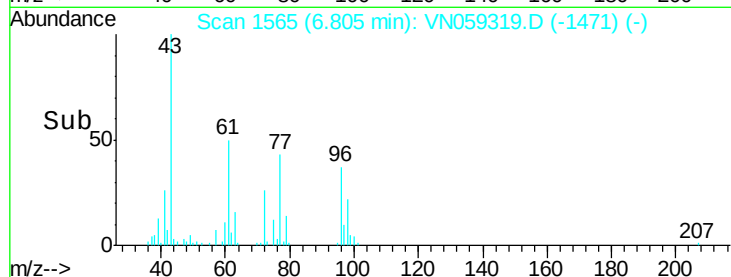
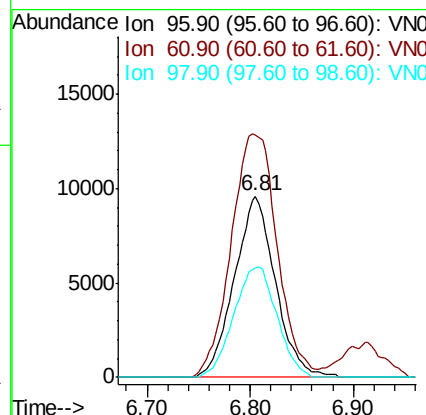
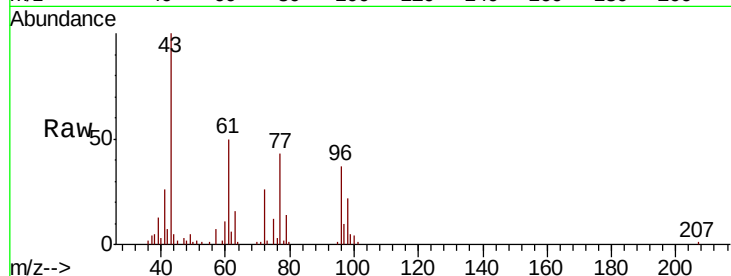
ClientSampleId :

VSTDIC005

Tot Ion:	96	Resp:	26566
Ion	Ratio	Lower	Upper
96	100		
61	150.2	0.0	311.6
98	63.8	0.0	129.8

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#28

Bromochloromethane

Concen: 3.761 ug/l

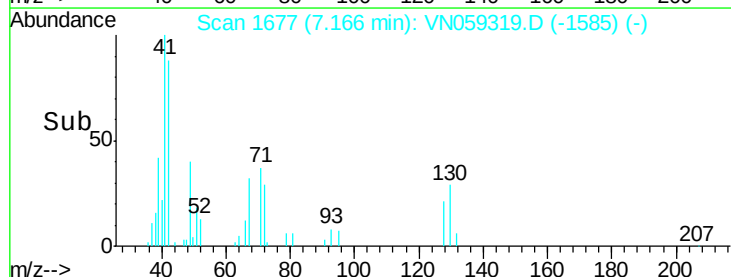
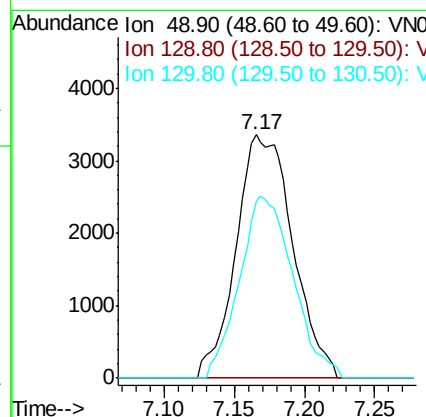
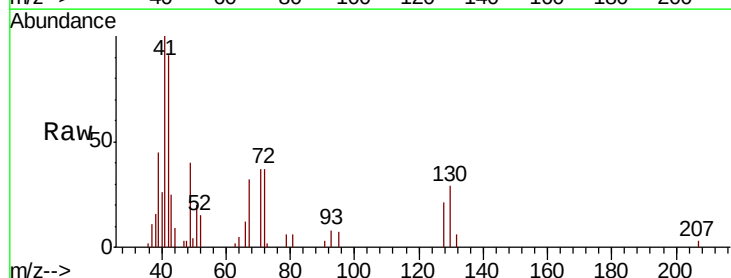
RT: 7.17 min Scan# 1677

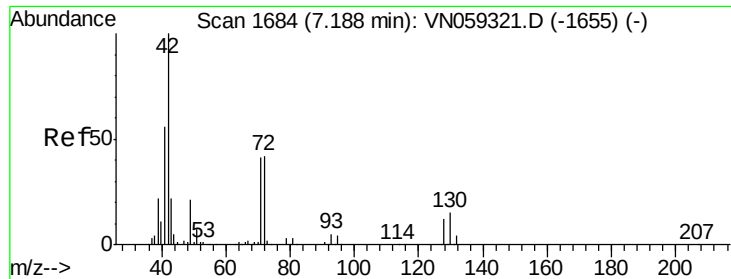
Delta R.T. -0.00 min

Lab File: VN059319.D

Acq: 20 Nov 2019 11:46

Tgt Ion:	49	Resp:	9420
Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	3.8
130	70.7	55.6	83.4





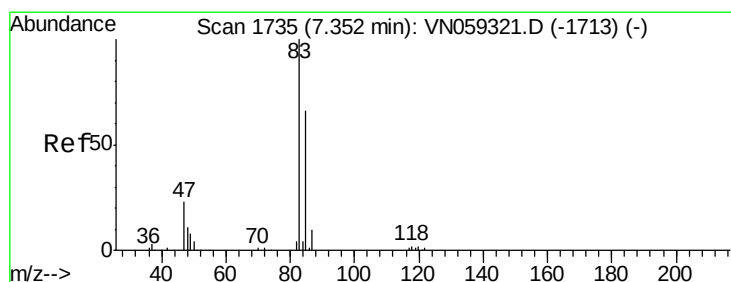
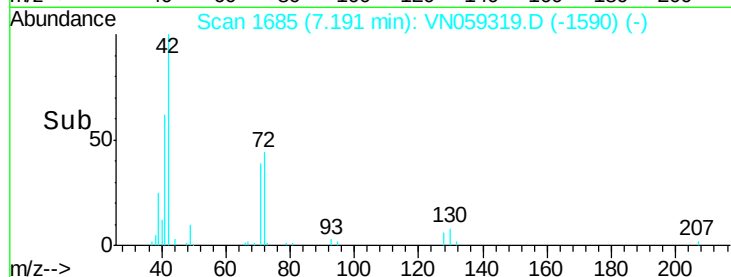
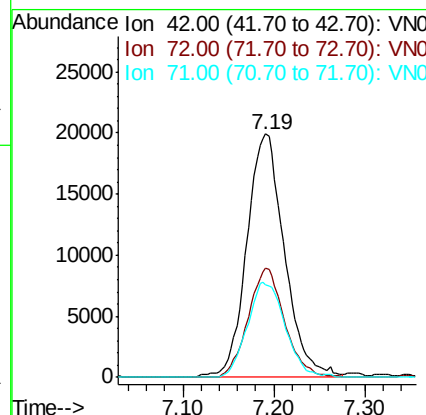
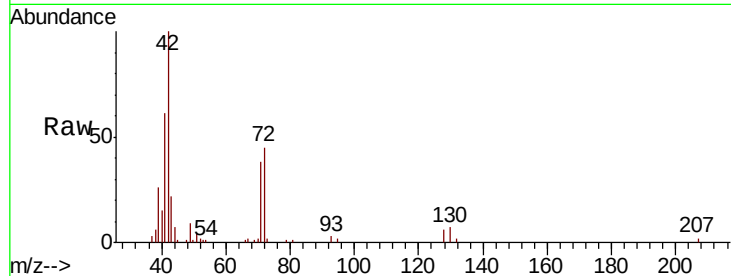
#29
Tetrahydrofuran
Concen: 25.997 ug/l
RT: 7.19 min Scan# 1685
Delta R.T. 0.01 min
Lab File: VN059319.D
Acq: 20 Nov 2019 11:46

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion:	42	Resp:	57313
Ion	Ratio	Lower	Upper
42	100		
72	43.1	33.1	49.7
71	38.9	30.9	46.3

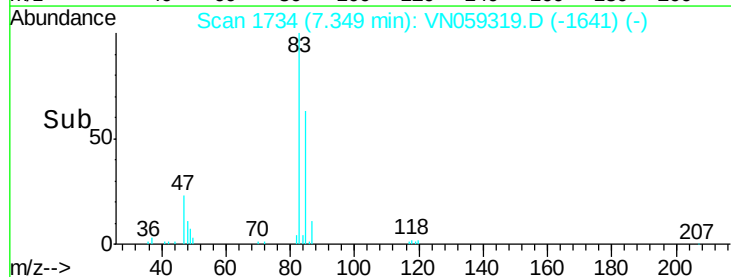
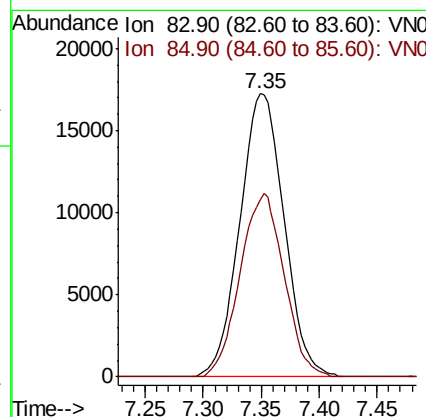
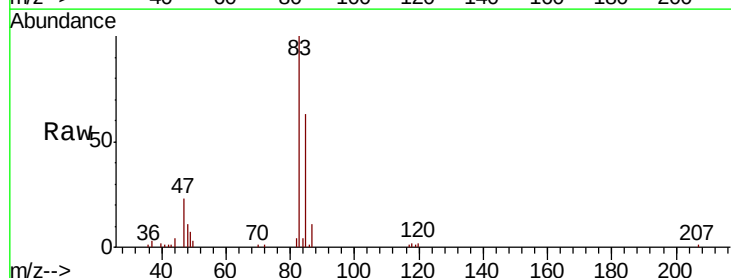
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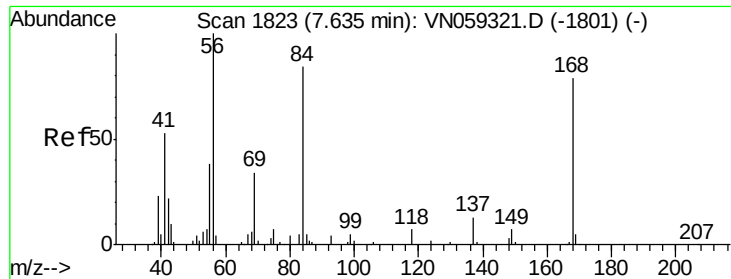
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#30
Chloroform
Concen: 5.735 ug/l
RT: 7.35 min Scan# 1734
Delta R.T. -0.00 min
Lab File: VN059319.D
Acq: 20 Nov 2019 11:46

Tgt Ion:	83	Resp:	45802
Ion	Ratio	Lower	Upper
83	100		
85	62.6	51.8	77.8





#31

Cyclohexane

Concen: 6.201 ug/l

RT: 7.63 min Scan# 1823

Delta R.T. 0.00 min

Lab File: VN059319.D

Acq: 20 Nov 2019 11:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion: 56 Resp: 48876

Ion Ratio Lower Upper

56 100

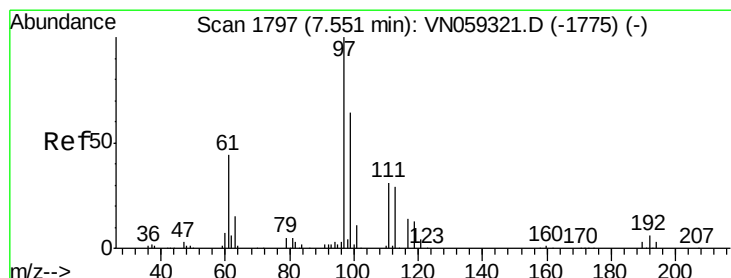
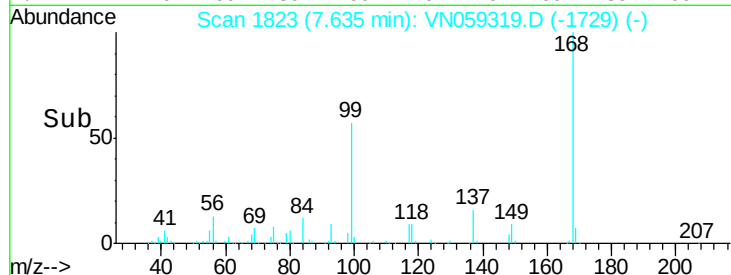
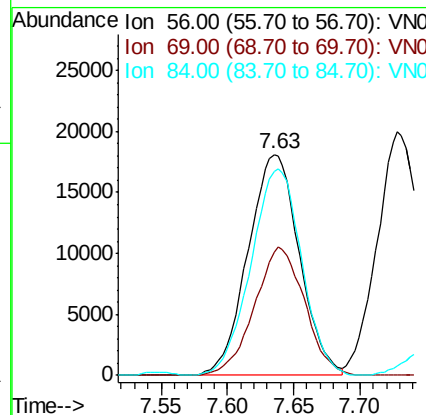
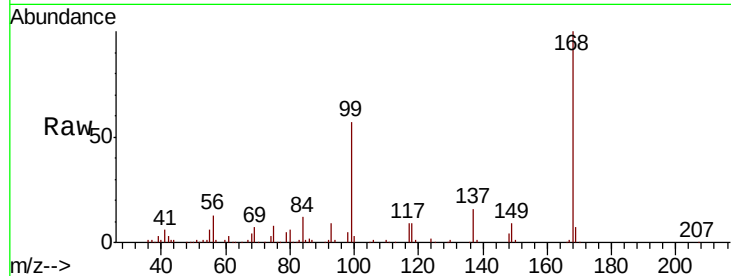
69 55.8 25.8 38.8#

84 91.9 65.0 97.4

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#32

1,1,1-Trichloroethane

Concen: 5.640 ug/l

RT: 7.55 min Scan# 1797

Delta R.T. 0.00 min

Lab File: VN059319.D

Acq: 20 Nov 2019 11:46

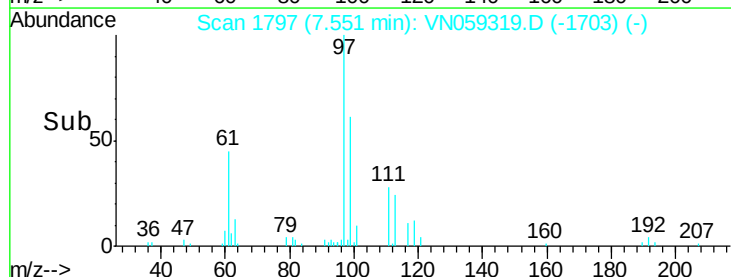
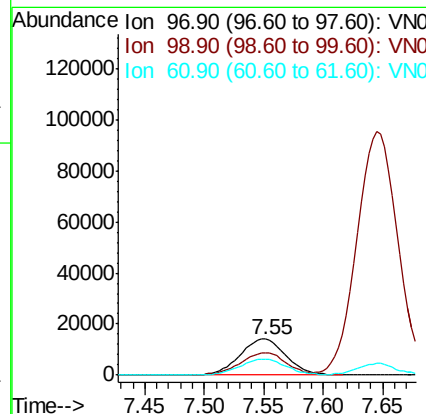
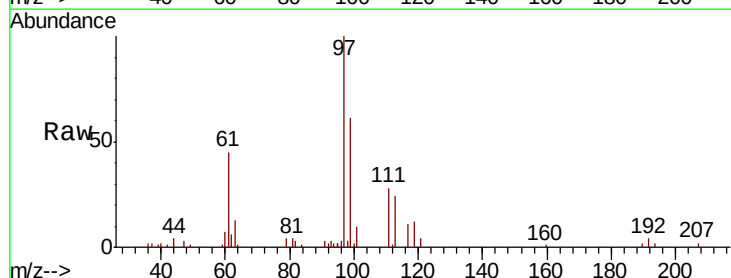
Tgt Ion: 97 Resp: 37868

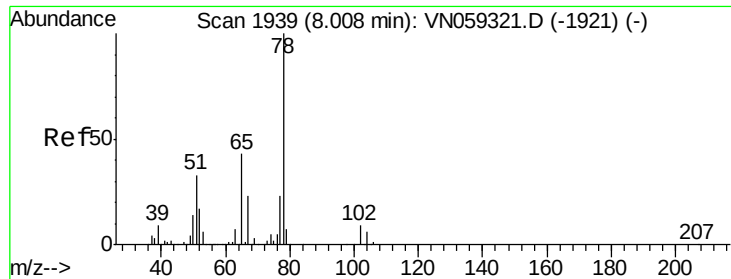
Ion Ratio Lower Upper

97 100

99 62.0 51.0 76.6

61 44.3 35.8 53.8





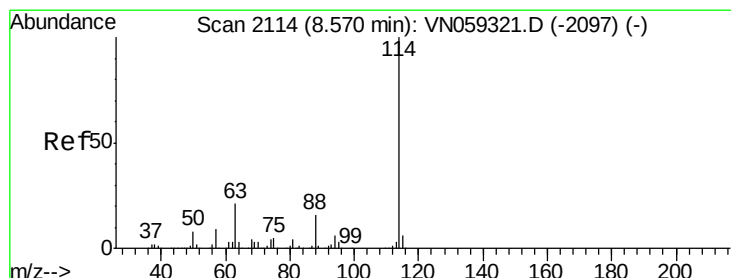
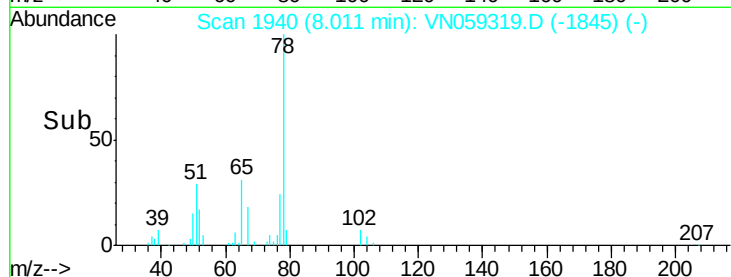
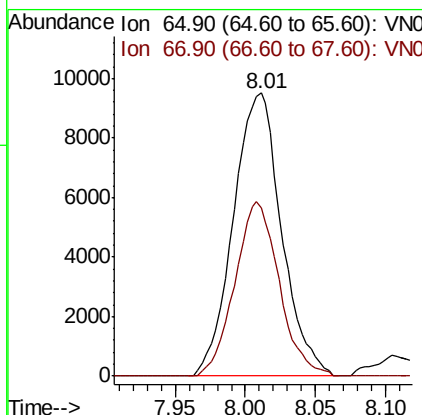
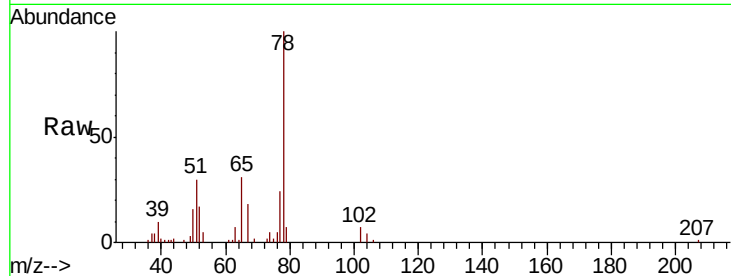
#33
 1,2-Dichloroethane-d4
 Concen: 4.486 ug/l
 RT: 8.01 min Scan# 1940
 Delta R.T. 0.01 min
 Lab File: VN059319.D
 Acq: 20 Nov 2019 11:46

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
65	100		
67	56.7	0.0	107.4

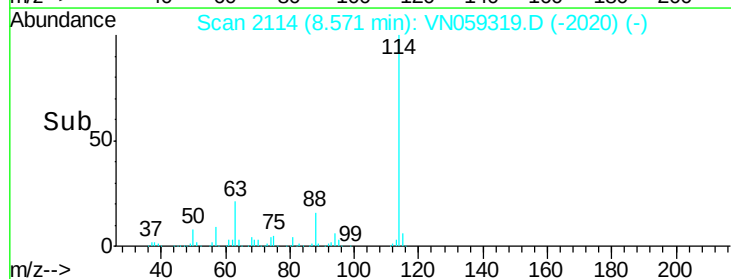
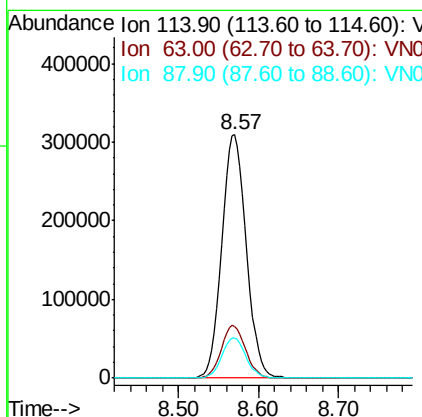
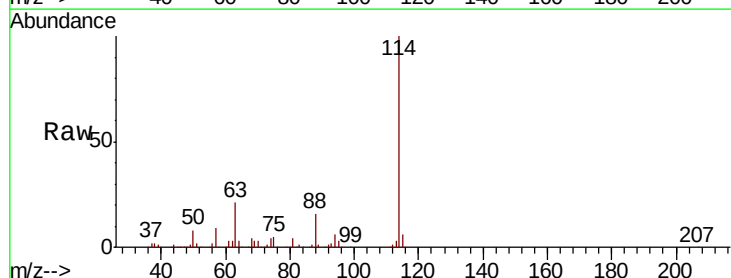
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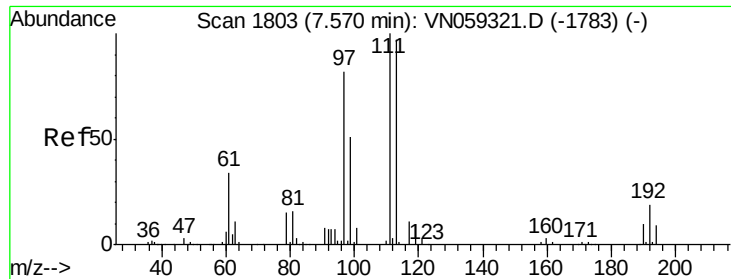
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2114
 Delta R.T. 0.00 min
 Lab File: VN059319.D
 Acq: 20 Nov 2019 11:46

Tgt Ion	Ratio	Lower	Upper
114	100		
63	21.5	0.0	43.4
88	16.5	0.0	32.2





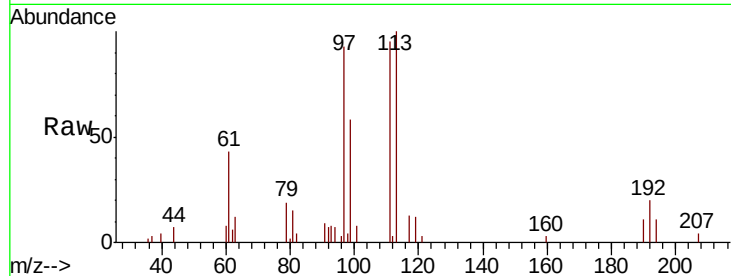
#35
Dibromofluoromethane
Concen: 4.532 ug/l
RT: 7.57 min Scan# 1803
Delta R.T. 0.00 min
Lab File: VN059319.D
Acq: 20 Nov 2019 11:46

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

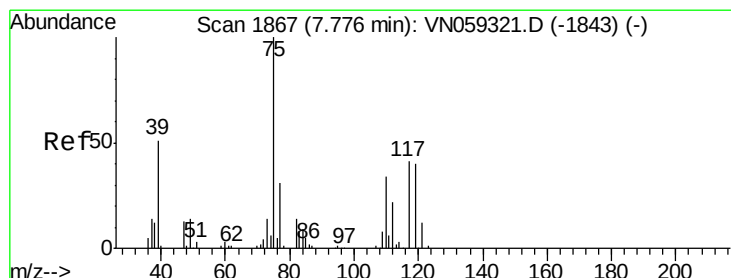
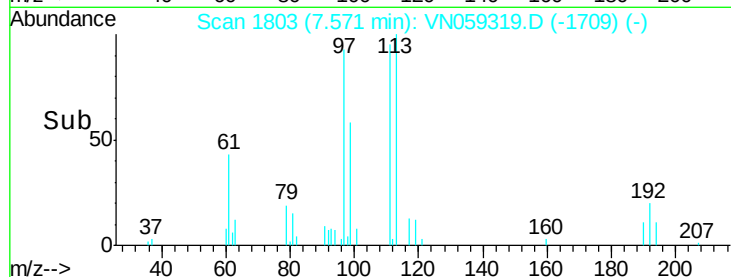
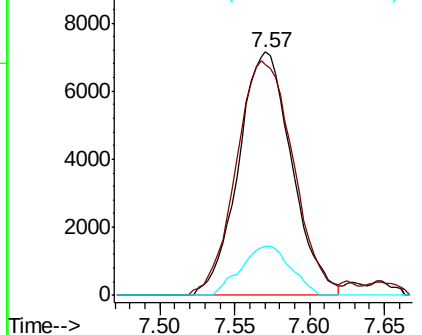
Tot Ion	Ratio	Lower	Upper
113	100		
111	103.0	82.8	124.2
192	18.7	16.1	24.1

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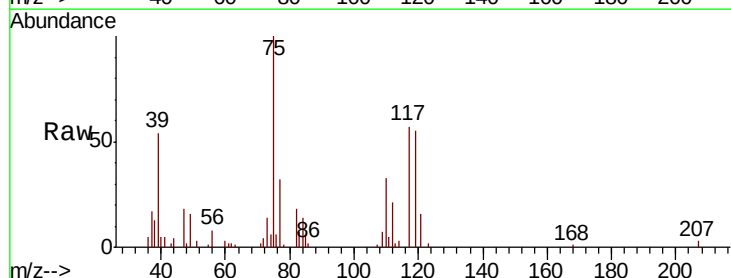


Abundance Ion 112.80 (112.50 to 113.50): V
Ion 110.80 (110.50 to 111.50): V
Ion 191.70 (191.40 to 192.40): V

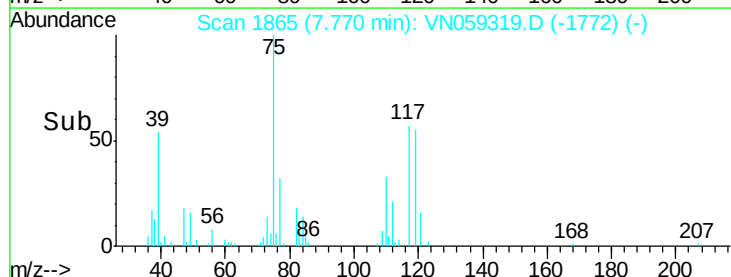
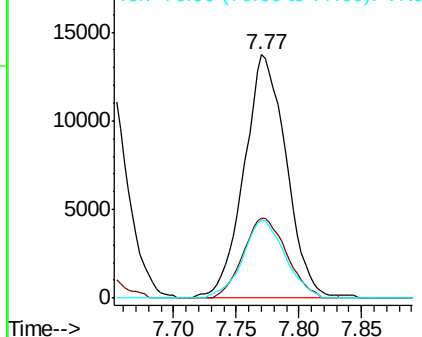


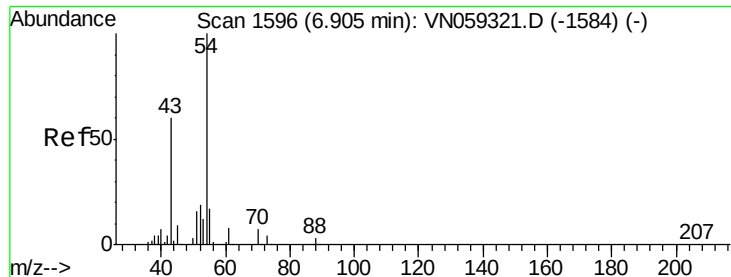
#36
1,1-Dichloropropene
Concen: 5.263 ug/l
RT: 7.77 min Scan# 1865
Delta R.T. -0.00 min
Lab File: VN059319.D
Acq: 20 Nov 2019 11:46

Tgt Ion	Ratio	Lower	Upper
75	100		
110	33.7	17.1	51.2
77	32.1	24.8	37.2



Abundance Ion 74.90 (74.60 to 75.60): V
Ion 109.90 (109.60 to 110.60): V
Ion 76.90 (76.60 to 77.60): V





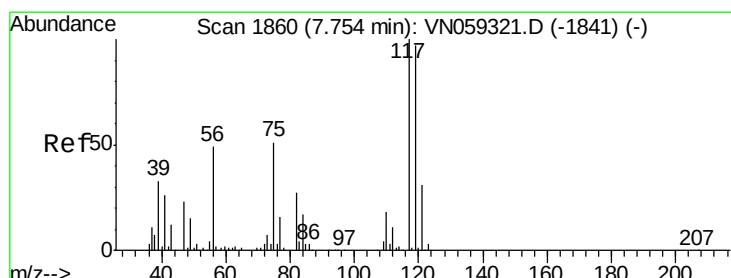
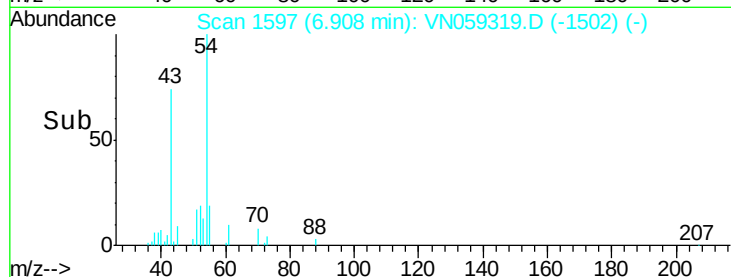
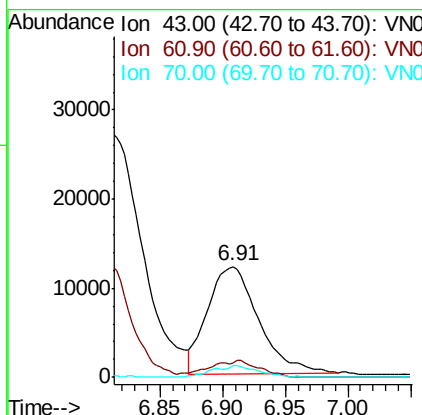
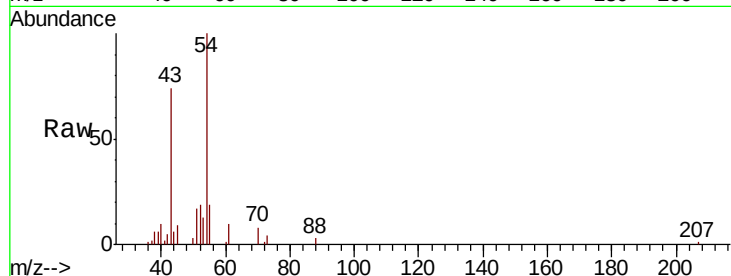
#37
Ethyl Acetate
Concen: 5.045 ug/l
RT: 6.91 min Scan# 1597
Delta R.T. 0.01 min
Lab File: VN059319.D
Acq: 20 Nov 2019 11:46

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
43	100		
61	15.4	11.2	16.8
70	9.8	7.8	11.8

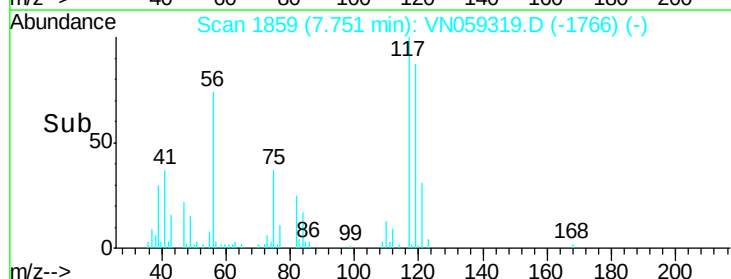
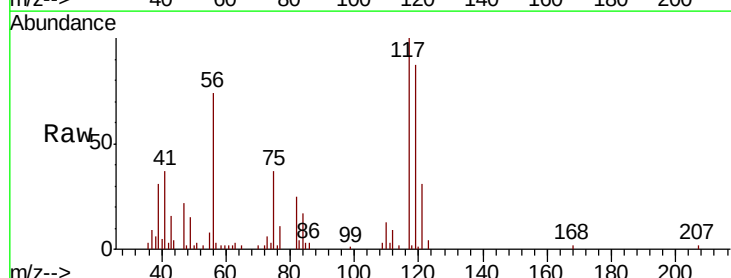
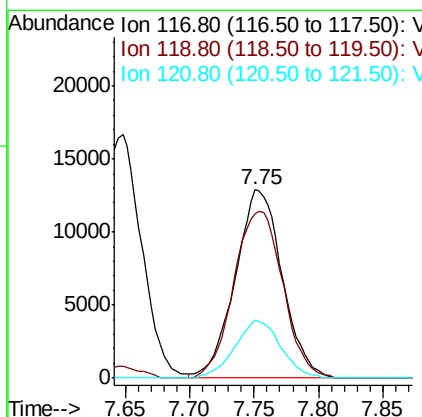
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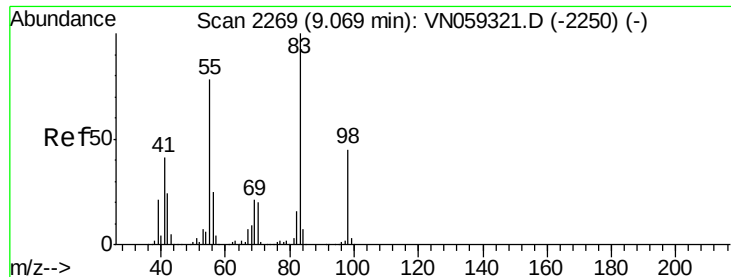
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#38
Carbon Tetrachloride
Concen: 5.371 ug/l
RT: 7.75 min Scan# 1859
Delta R.T. -0.00 min
Lab File: VN059319.D
Acq: 20 Nov 2019 11:46

Tgt Ion	Ratio	Lower	Upper
117	100		
119	87.2	75.6	113.4
121	30.5	24.6	36.8





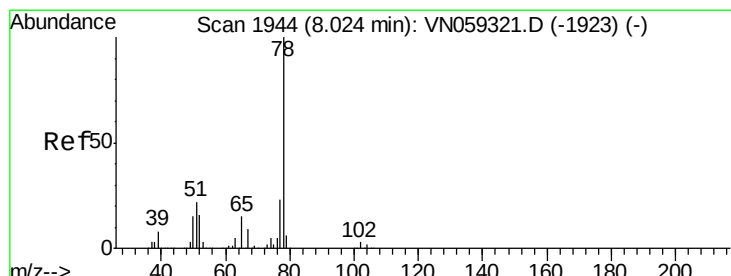
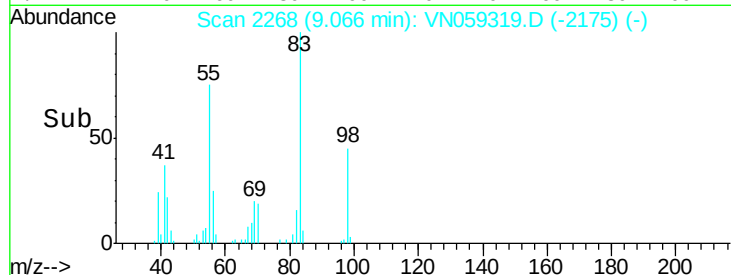
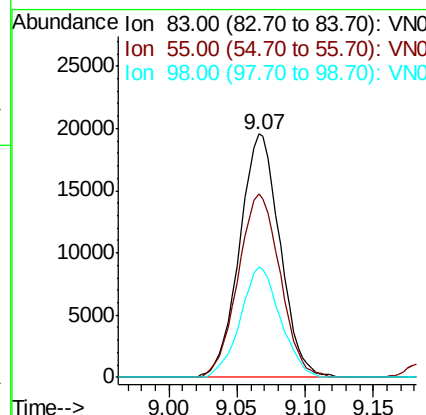
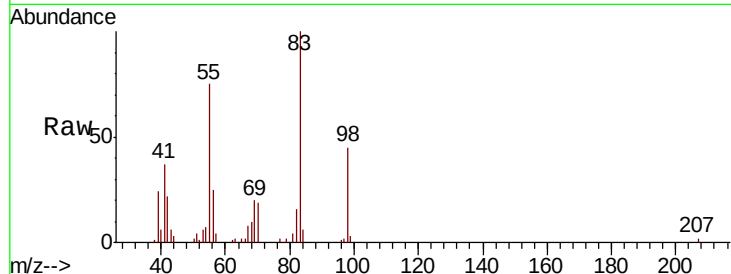
#39
Methylvlcyclohexane
Concen: 5.656 ug/l
RT: 9.07 min Scan# 2268
Delta R.T. -0.00 min
Lab File: VN059319.D
Acq: 20 Nov 2019 11:46

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
83	100		
55	75.3	63.9	95.9
98	45.3	35.6	53.4

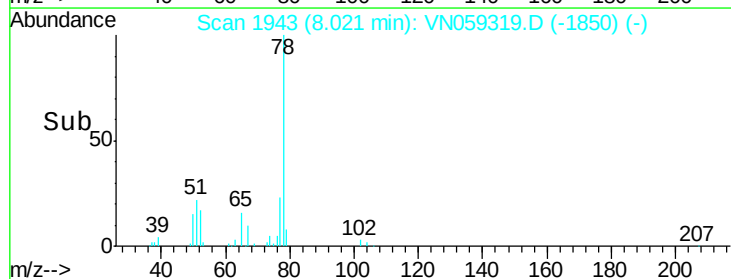
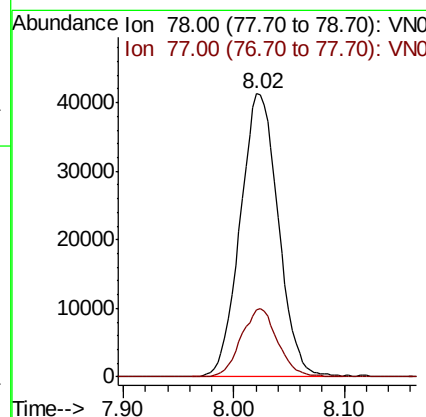
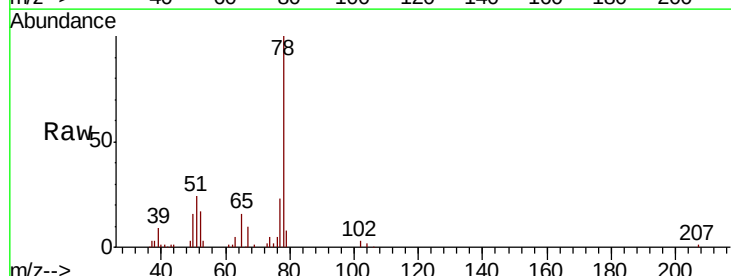
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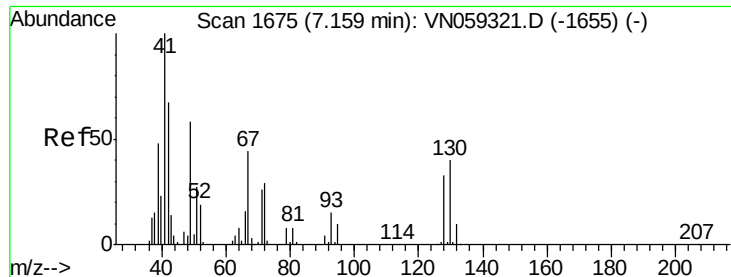
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#40
Benzene
Concen: 5.359 ug/l
RT: 8.02 min Scan# 1943
Delta R.T. -0.00 min
Lab File: VN059319.D
Acq: 20 Nov 2019 11:46

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.5	18.8	28.2





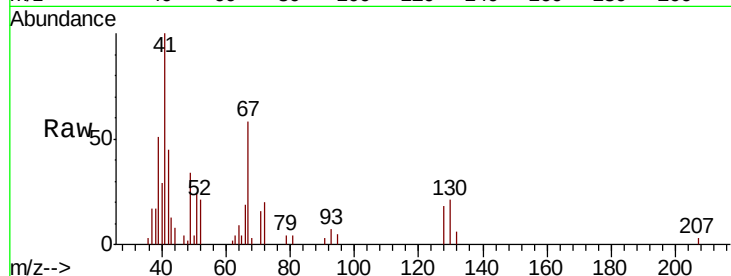
#41
Methacrylonitrile
Concen: 4.581 ug/l m
RT: 7.16 min Scan# 1674
Delta R.T. -0.00 min
Lab File: VN059319.D
Acq: 20 Nov 2019 11:46

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

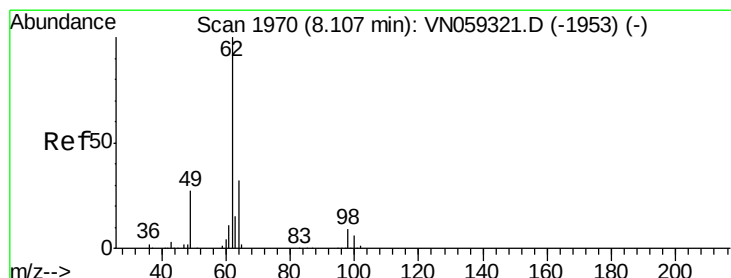
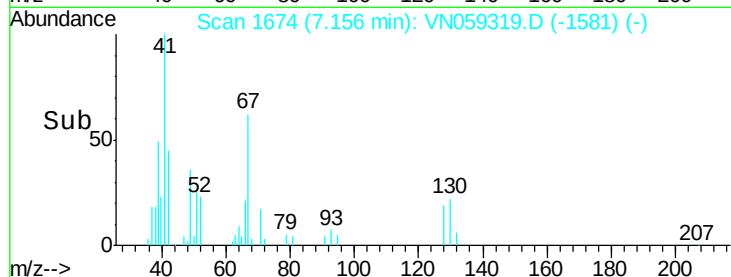
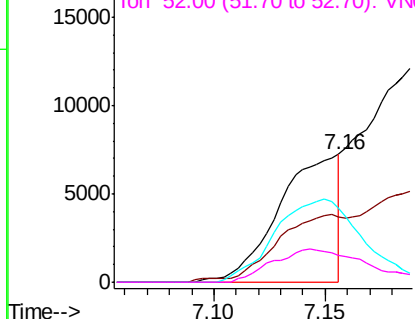
Tot Ion	Ratio	Lower	Upper
41	100		
39	0.0	0.0	0.0
67	0.0	0.0	0.0
52	0.0	0.0	0.0

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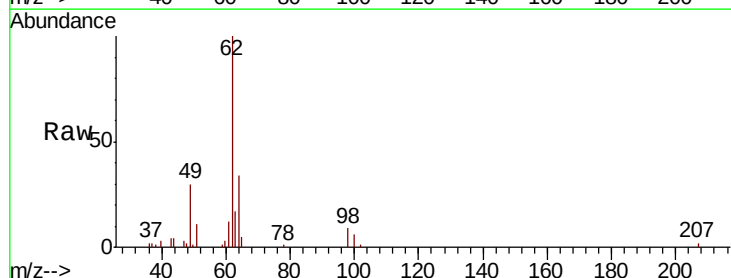


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 39.00 (38.70 to 39.70): VN0
Ion 67.00 (66.70 to 67.70): VN0
Ion 52.00 (51.70 to 52.70): VN0

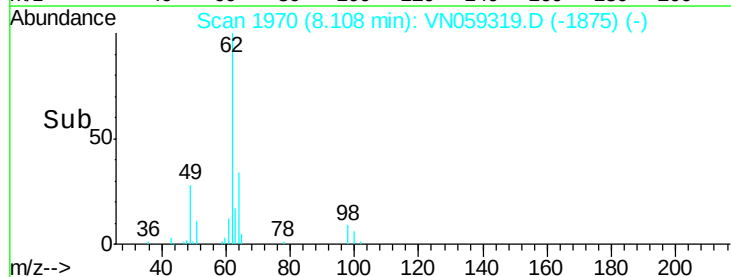
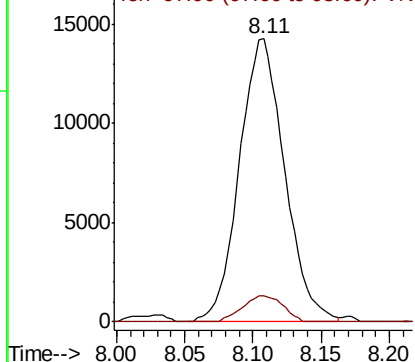


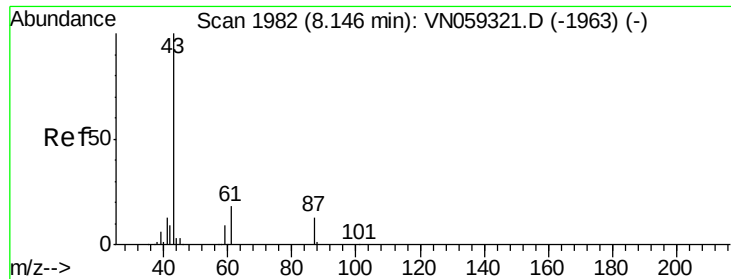
#42
1,2-Dichloroethane
Concen: 5.191 ug/l
RT: 8.11 min Scan# 1970
Delta R.T. 0.01 min
Lab File: VN059319.D
Acq: 20 Nov 2019 11:46

Tgt Ion	Ratio	Lower	Upper
62	100		
98	8.3	0.0	17.8



Abundance Ion 61.90 (61.60 to 62.60): VN0
Ion 97.90 (97.60 to 98.60): VN0





#43

Isopropyl Acetate

Concen: 4.957 ug/l

RT: 8.15 min Scan# 1982

Delta R.T. 0.00 min

Lab File: VN059319.D

Acq: 20 Nov 2019 11:46

Instrument :

MSVOA_N

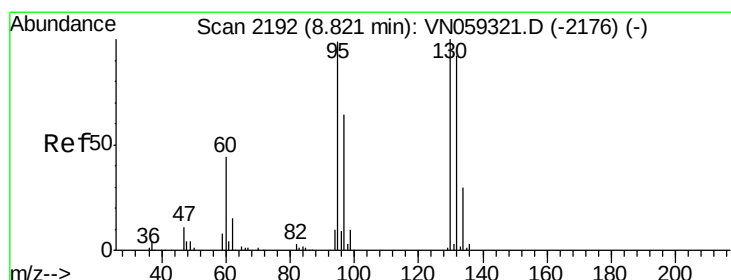
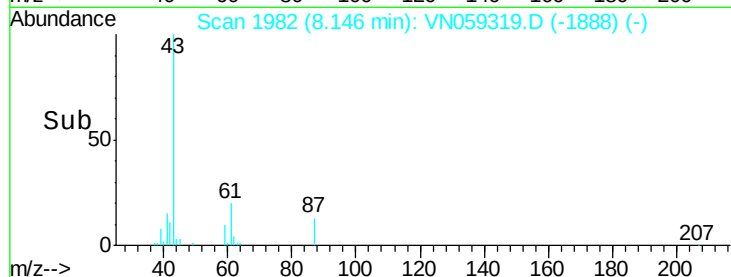
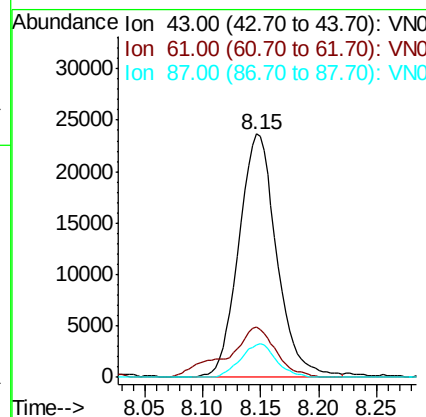
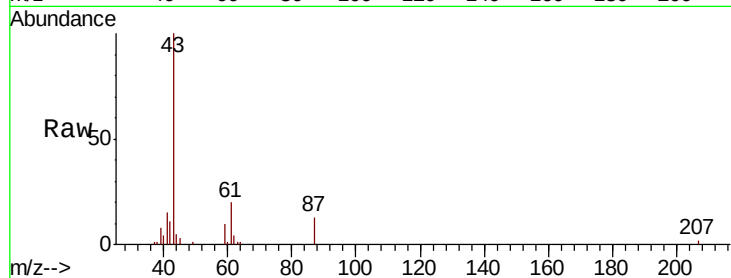
ClientSampleId :

VSTDIC005

Tot Ion:	43	Resp:	53805
Ion	Ratio	Lower	Upper
43	100		
61	26.7	21.0	31.6
87	12.9	9.8	14.6

Manual Integrations
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#44

Trichloroethene

Concen: 5.431 ug/l

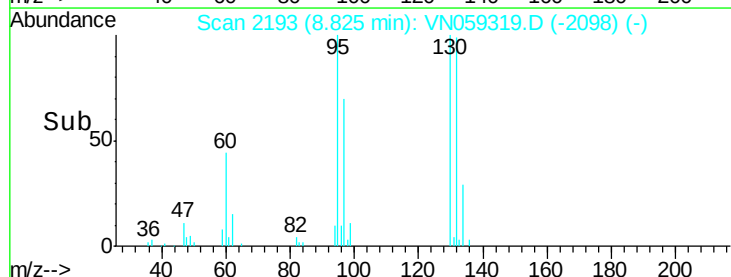
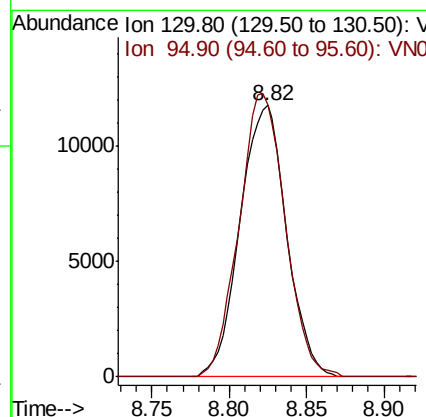
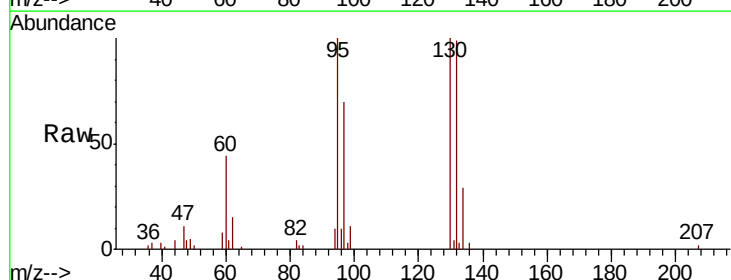
RT: 8.82 min Scan# 2193

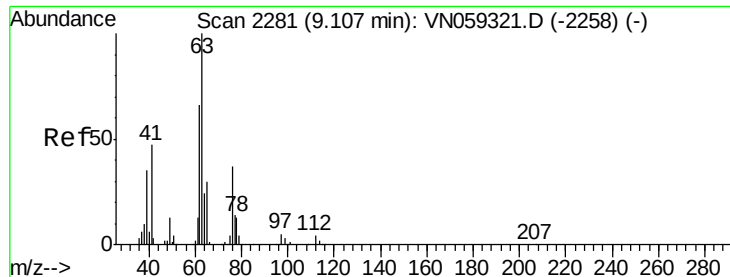
Delta R.T. 0.01 min

Lab File: VN059319.D

Acq: 20 Nov 2019 11:46

Tgt Ion:	130	Resp:	24602
Ion	Ratio	Lower	Upper
130	100		
95	100.2	0.0	206.4





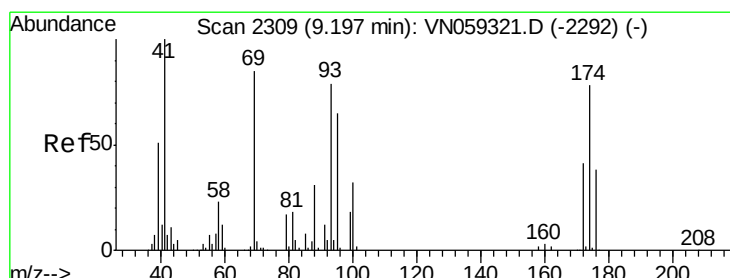
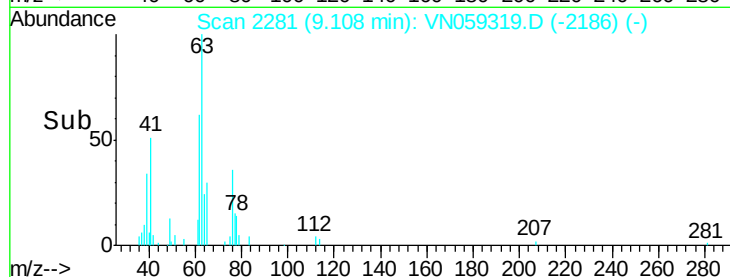
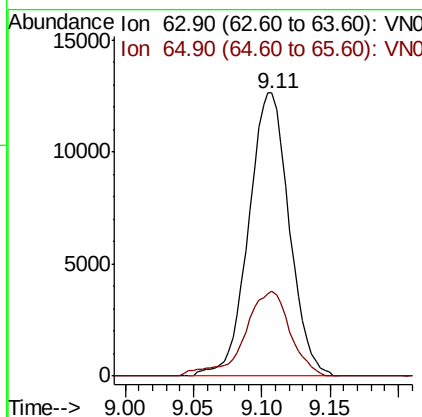
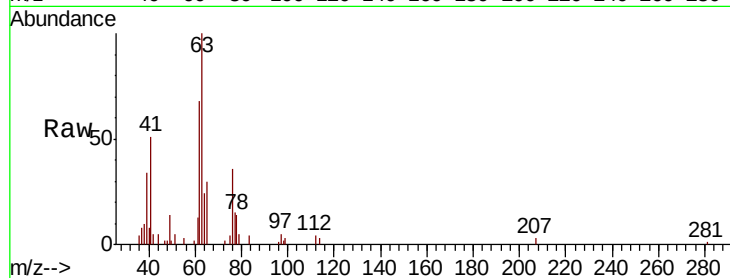
#45
 1,2-Dichloropropane
 Concen: 5.214 ug/l
 RT: 9.11 min Scan# 2281
 Delta R.T. 0.01 min
 Lab File: VN059319.D
 Acq: 20 Nov 2019 11:46

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
63	100		
65	29.8	24.6	37.0

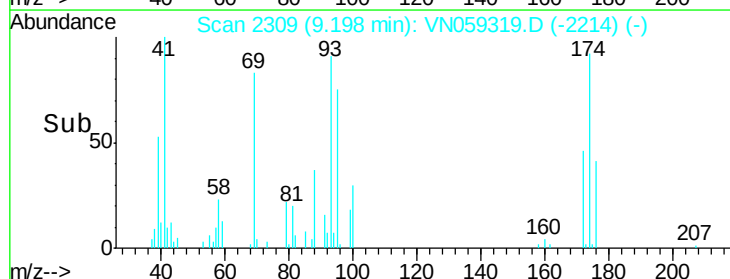
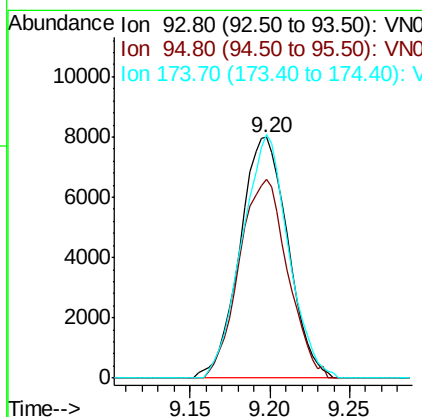
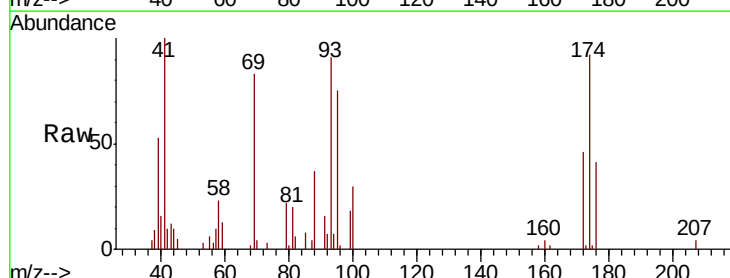
Manual Integrations
 APPROVED

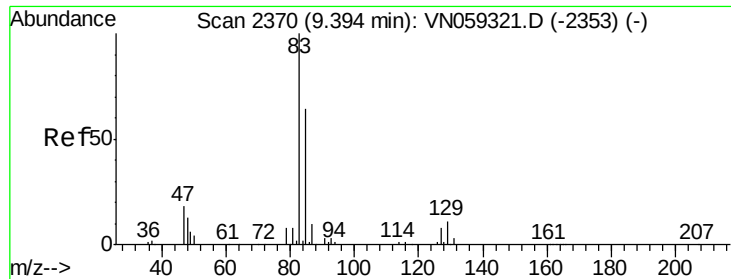
MMDadoda
 11/21/2019 11:07:36 AM



#46
 Dibromomethane
 Concen: 5.264 ug/l
 RT: 9.20 min Scan# 2309
 Delta R.T. 0.01 min
 Lab File: VN059319.D
 Acq: 20 Nov 2019 11:46

Tgt Ion	Ratio	Lower	Upper
93	100		
95	83.0	66.6	100.0
174	97.7	78.2	117.2





#47

Bromodichloromethane

Concen: 5.129 ug/l

RT: 9.39 min Scan# 2369

Delta R.T. 0.00 min

Lab File: VN059319.D

Acq: 20 Nov 2019 11:46

Instrument :

MSVOA_N

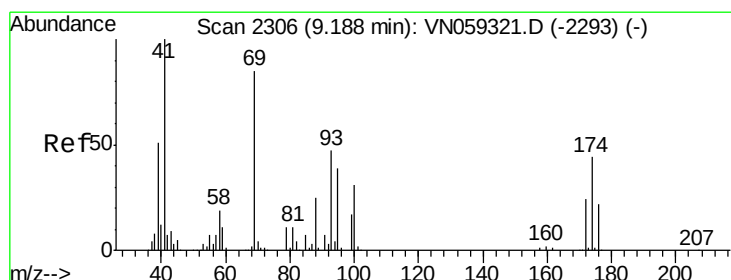
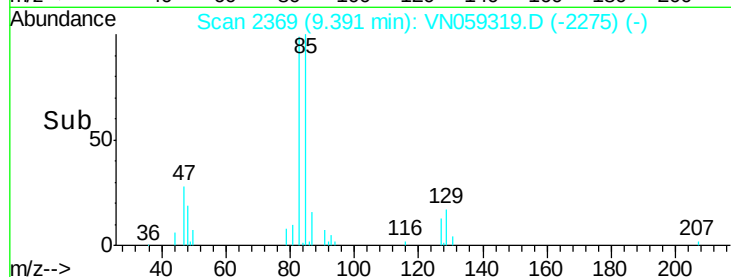
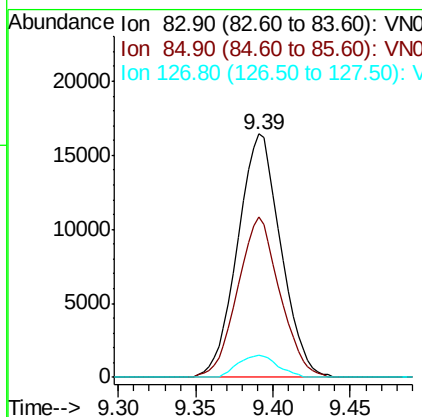
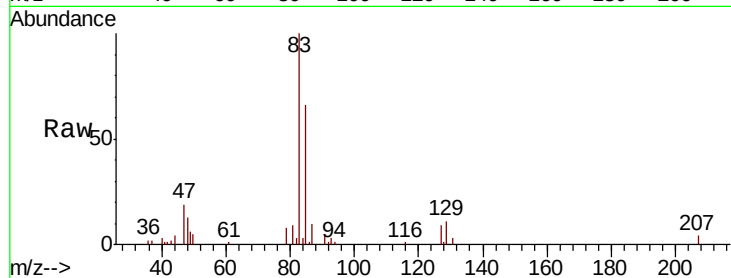
ClientSampleId :

VSTDIC005

Tot Ion:	83	Resp:	31947
Ion	Ratio	Lower	Upper
83	100		
85	66.0	49.7	74.5
127	8.9	6.4	9.6

Manual Integrations
APPROVED

MMDadoda
11/21/2019 11:07:36 AM



#48

Methyl methacrylate

Concen: 4.640 ug/l

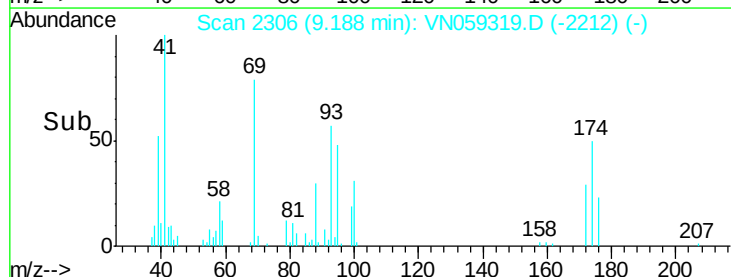
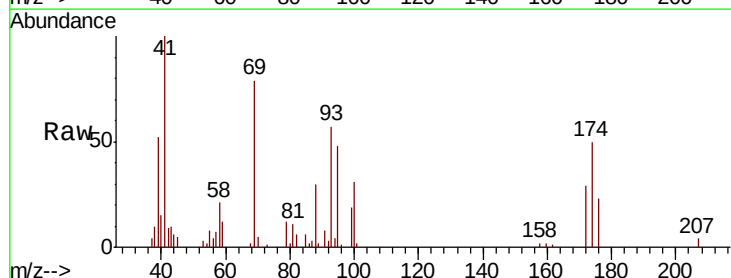
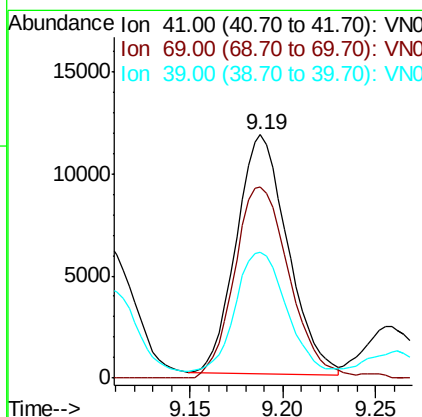
RT: 9.19 min Scan# 2306

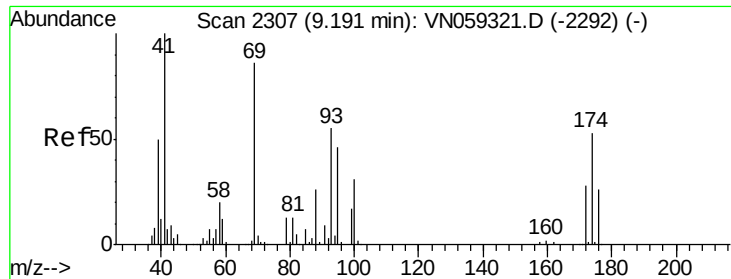
Delta R.T. 0.00 min

Lab File: VN059319.D

Acq: 20 Nov 2019 11:46

Tgt Ion:	41	Resp:	22528
Ion	Ratio	Lower	Upper
41	100		
69	85.2	67.3	100.9
39	55.2	43.3	64.9





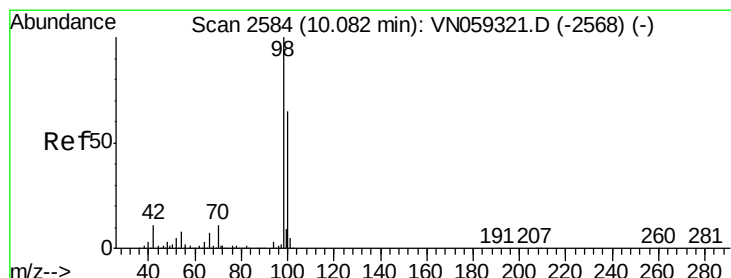
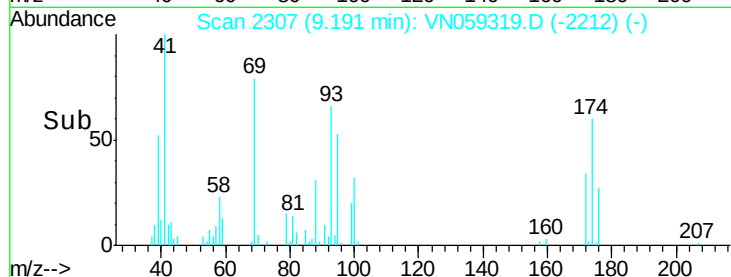
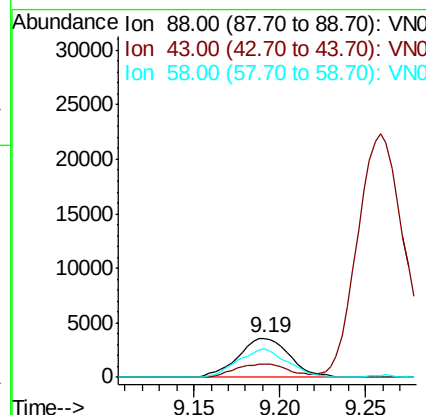
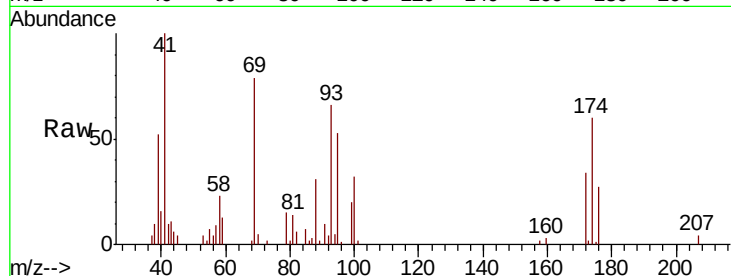
#49
1,4-Dioxane
Concen: 86.360 ug/l
RT: 9.19 min Scan# 2307
Delta R.T. 0.01 min
Lab File: VN059319.D
Acq: 20 Nov 2019 11:46

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
88	100		
43	36.0	26.3	39.5
58	70.2	60.6	90.8

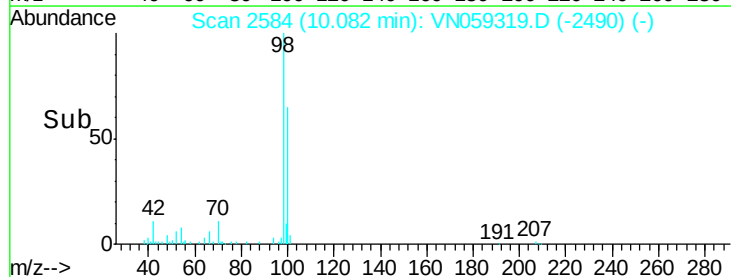
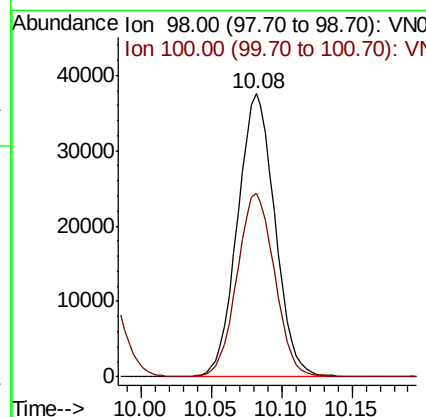
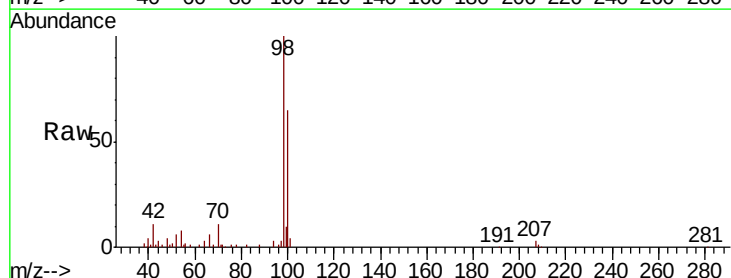
Manual Integrations
APPROVED

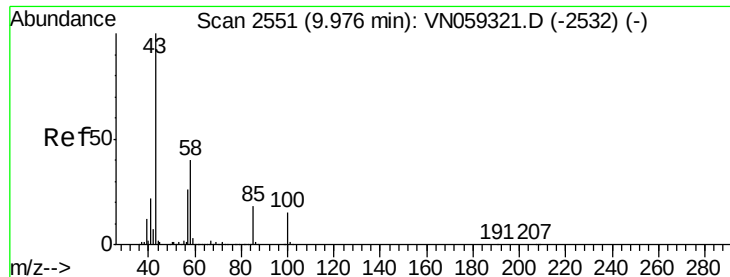
MMDadoda
11/21/2019 11:07:36 AM



#50
Toluene-d8
Concen: 4.531 ug/l
RT: 10.08 min Scan# 2584
Delta R.T. 0.00 min
Lab File: VN059319.D
Acq: 20 Nov 2019 11:46

Tgt Ion	Ratio	Lower	Upper
98	100		
100	65.2	52.2	78.2





#51

4-Methyl-2-Pentanone

Concen: 25.783 ug/l

RT: 9.98 min Scan# 2551

Delta R.T. 0.00 min

Lab File: VN059319.D

Acq: 20 Nov 2019 11:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion: 43 Resp: 158339

Ion Ratio Lower Upper

43 100

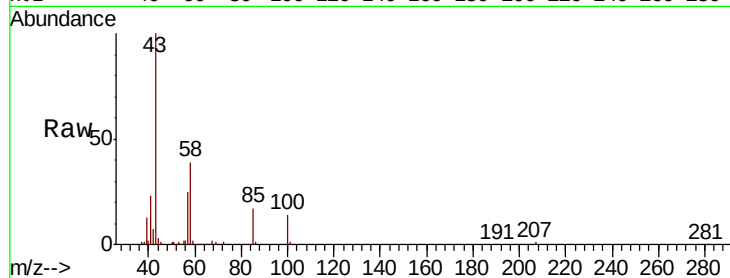
58 38.8 31.5 47.3

Manual Integrations

APPROVED

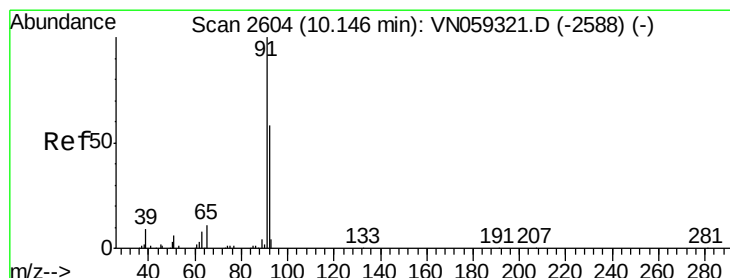
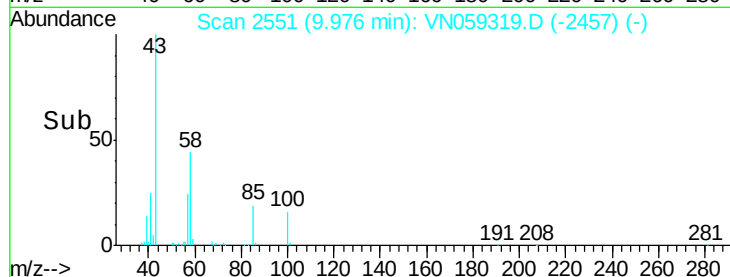
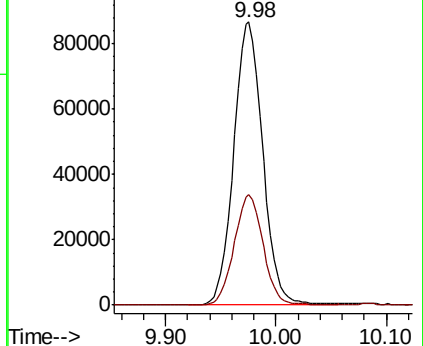
MMDadoda

11/21/2019 11:07:36 AM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#52

Toluene

Concen: 5.377 ug/l

RT: 10.15 min Scan# 2604

Delta R.T. 0.00 min

Lab File: VN059319.D

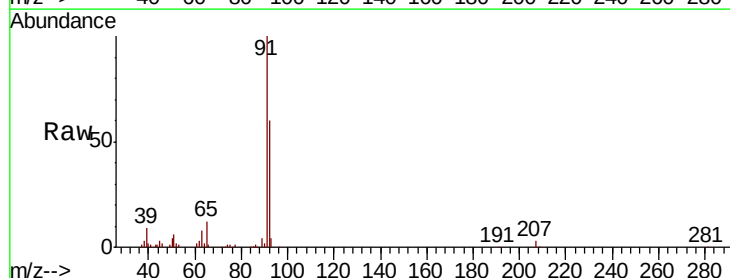
Acq: 20 Nov 2019 11:46

Tgt Ion: 92 Resp: 59393

Ion Ratio Lower Upper

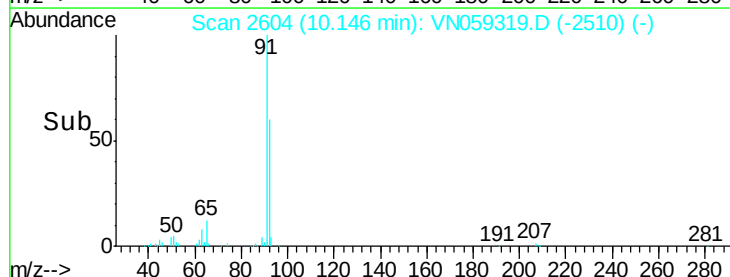
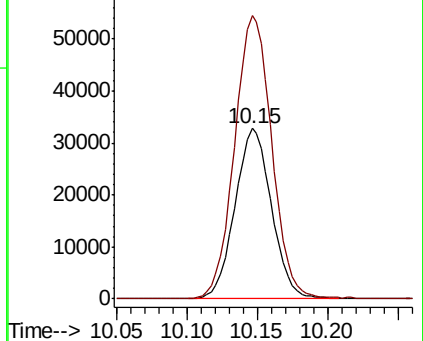
92 100

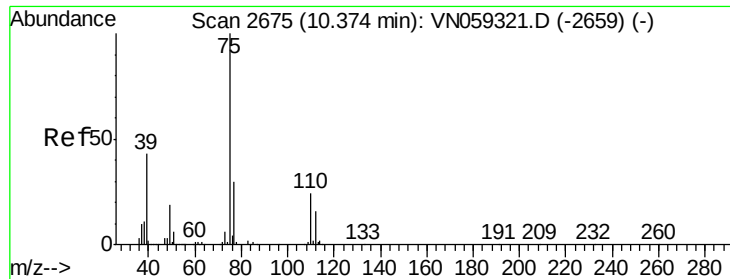
91 169.4 139.5 209.3



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0





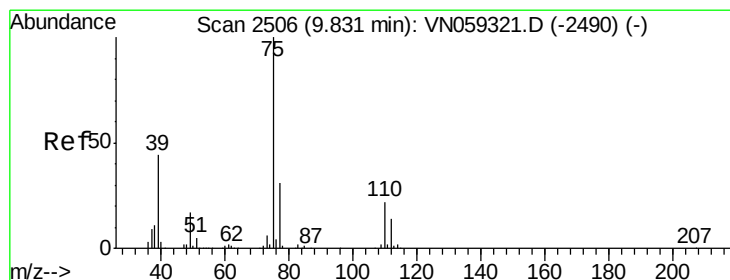
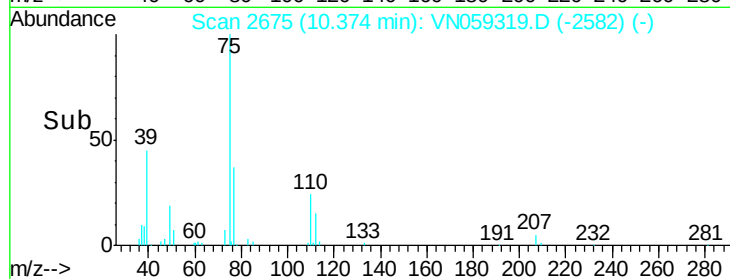
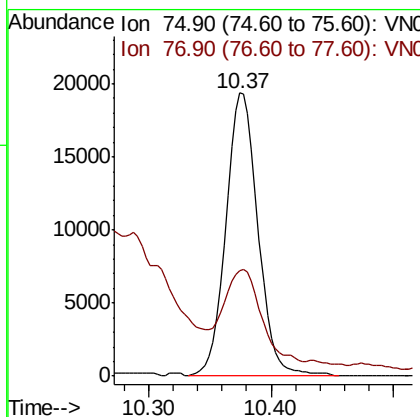
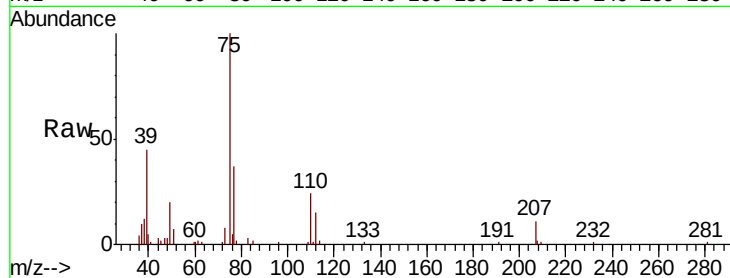
#53
t-1,3-Dichloropropene
Concen: 4.947 ug/l
RT: 10.37 min Scan# 2675
Delta R.T. -0.00 min
Lab File: VN059319.D
Acq: 20 Nov 2019 11:46

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
75	100		
77	32.9	25.3	37.9

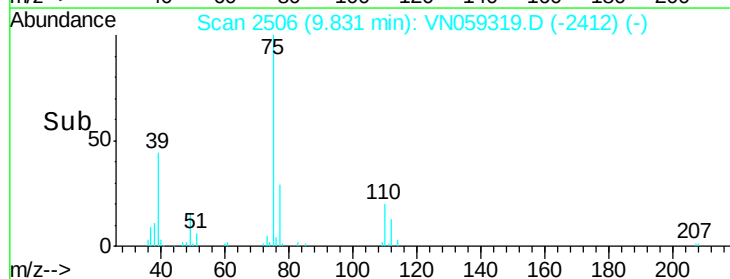
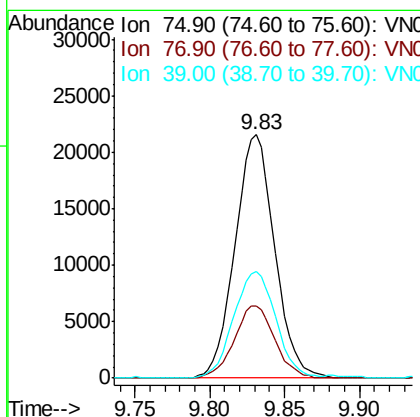
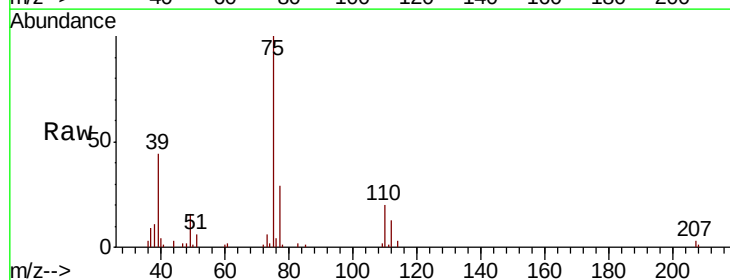
Manual Integrations
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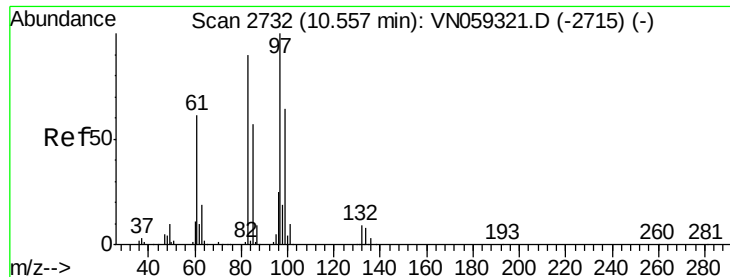
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#54
cis-1,3-Dichloropropene
Concen: 5.148 ug/l
RT: 9.83 min Scan# 2506
Delta R.T. 0.00 min
Lab File: VN059319.D
Acq: 20 Nov 2019 11:46

Tgt Ion	Ratio	Lower	Upper
75	100		
77	29.4	25.5	38.3
39	43.8	37.3	55.9





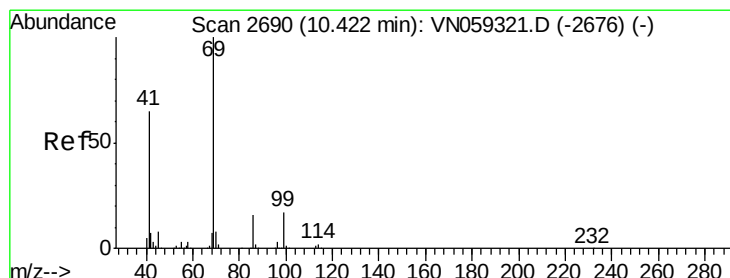
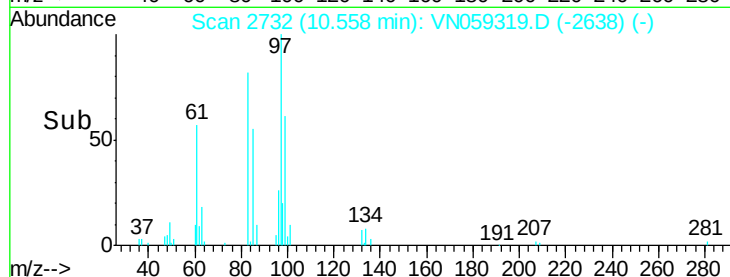
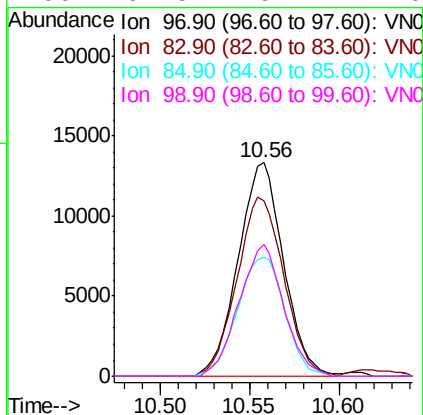
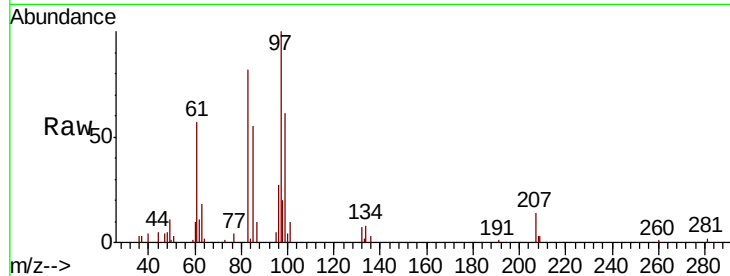
#55
1,1,2-Trichloroethane
Concen: 5.294 ug/l
RT: 10.56 min Scan# 2732
Delta R.T. 0.00 min
Lab File: VN059319.D
Acq: 20 Nov 2019 11:46

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion:	97	Resp:	23667
Ion	Ratio	Lower	Upper
97	100		
83	82.4	71.0	106.4
85	55.5	45.8	68.8
99	61.5	49.4	74.0

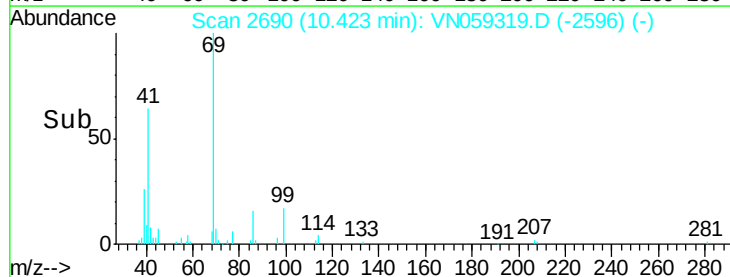
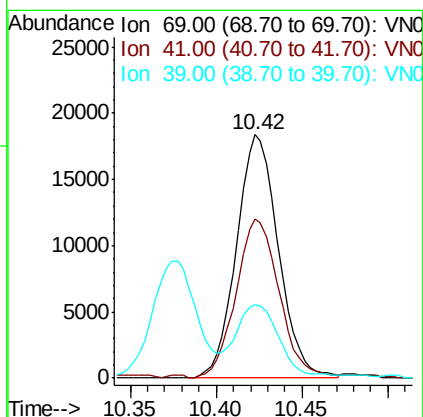
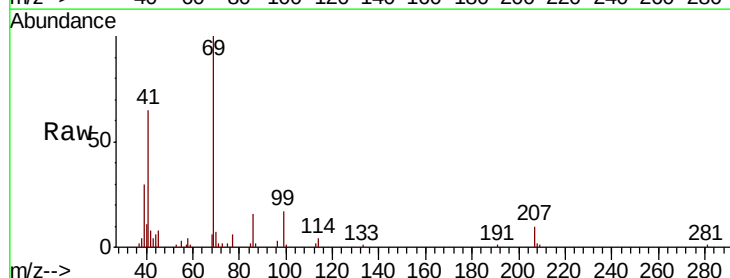
Manual Integrations
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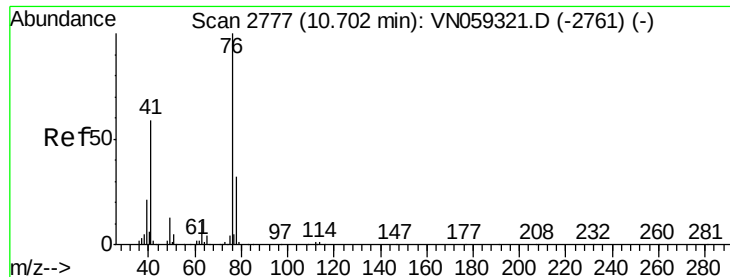
MMDadoda
11/21/2019 11:07:36 AM



#56
Ethyl methacrylate
Concen: 4.677 ug/l
RT: 10.42 min Scan# 2690
Delta R.T. 0.00 min
Lab File: VN059319.D
Acq: 20 Nov 2019 11:46

Tgt Ion:	69	Resp:	31035
Ion	Ratio	Lower	Upper
69	100		
41	67.4	53.6	80.4
39	28.5	26.2	39.4





#57

1,3-Dichloropropane

Concen: 5.150 ug/l

RT: 10.70 min Scan# 2777

Delta R.T. 0.00 min

Lab File: VN059319.D

Acq: 20 Nov 2019 11:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion: 76 Resp: 39623

Ion Ratio Lower Upper

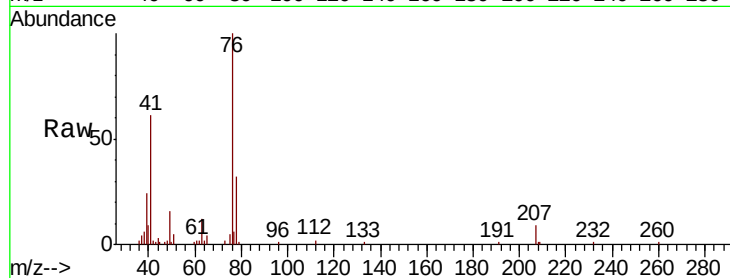
76 100

78 33.8 25.8 38.8

Manual Integrations
APPROVED

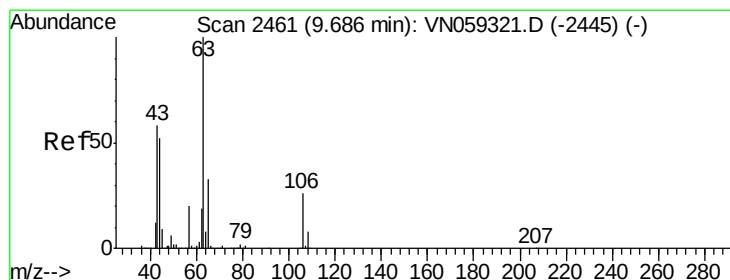
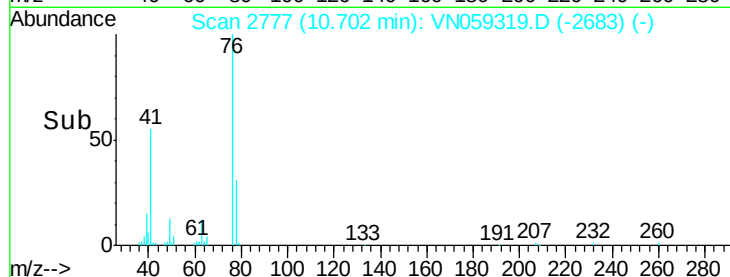
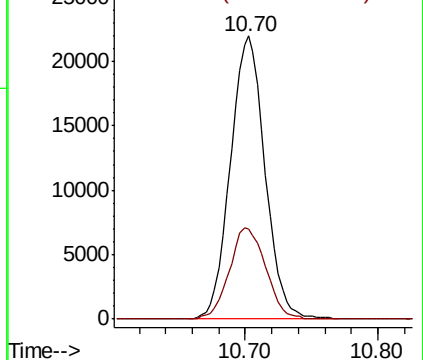
MMDadoda

11/21/2019 11:07:36 AM



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#58

2-Chloroethyl Vinyl ether

Concen: 18.145 ug/l

RT: 9.69 min Scan# 2461

Delta R.T. 0.00 min

Lab File: VN059319.D

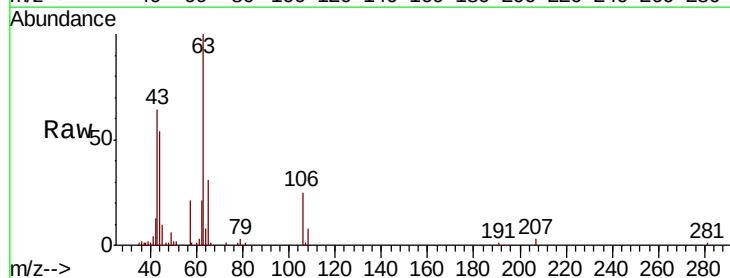
Acq: 20 Nov 2019 11:46

Tgt Ion: 63 Resp: 45141

Ion Ratio Lower Upper

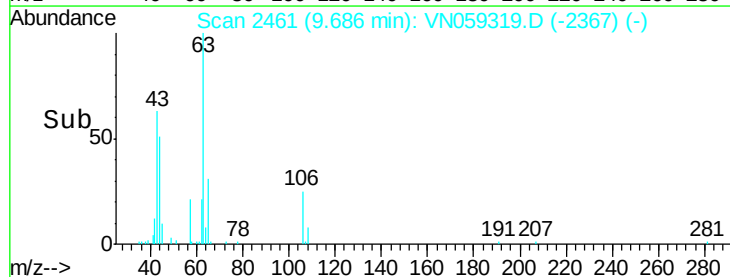
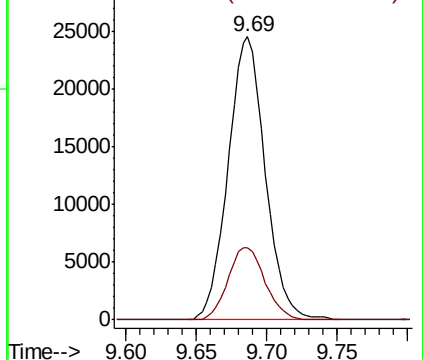
63 100

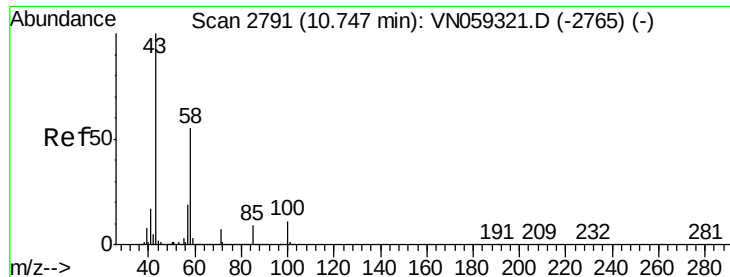
106 25.4 20.2 30.2



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 105.90 (105.60 to 106.60): V





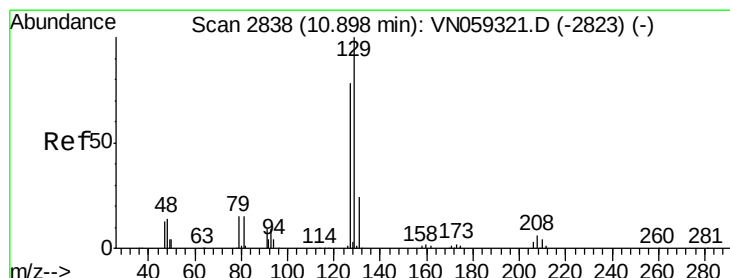
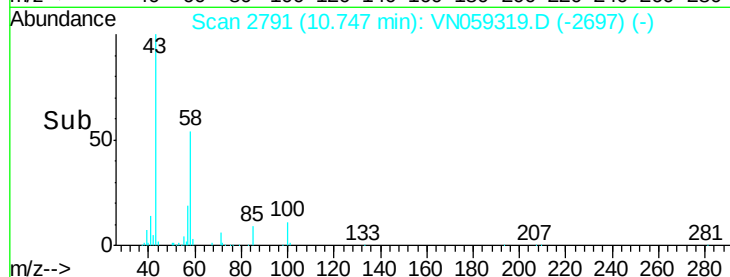
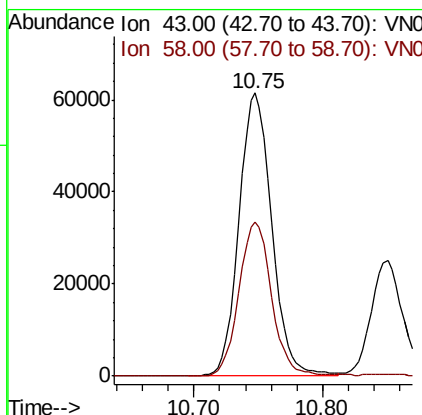
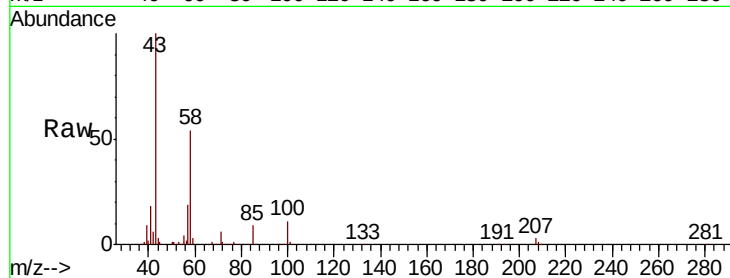
#59
2-Hexanone
Concen: 23.096 ug/l
RT: 10.75 min Scan# 2791
Delta R.T. 0.00 min
Lab File: VN059319.D
Acq: 20 Nov 2019 11:46

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion: 43 Resp: 108871
Ion Ratio Lower Upper
43 100
58 54.4 27.3 81.8

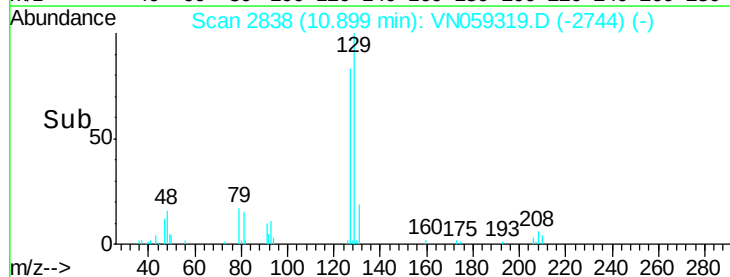
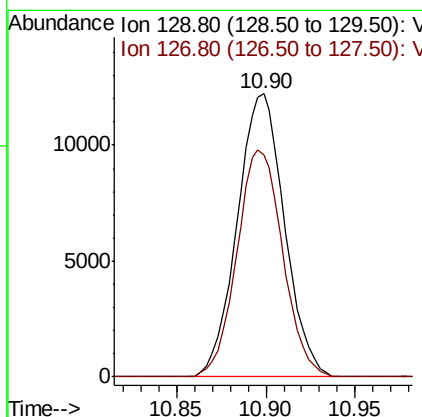
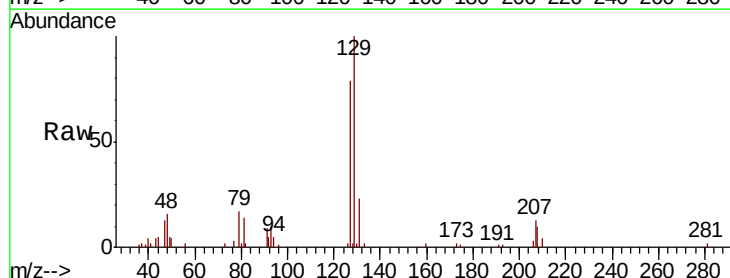
Manual Integrations
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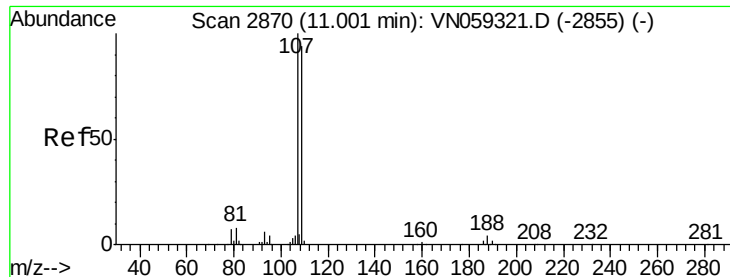
MMDadoda
11/21/2019 11:07:36 AM



#60
Dibromochloromethane
Concen: 4.778 ug/l
RT: 10.90 min Scan# 2838
Delta R.T. 0.00 min
Lab File: VN059319.D
Acq: 20 Nov 2019 11:46

Tgt Ion: 129 Resp: 22584
Ion Ratio Lower Upper
129 100
127 77.8 38.6 115.8





#61

1,2-Dibromoethane

Concen: 5.049 ug/l

RT: 11.00 min Scan# 2870

Delta R.T. 0.00 min

Lab File: VN059319.D

Acq: 20 Nov 2019 11:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion: 107 Resp: 22850

Ion Ratio Lower Upper

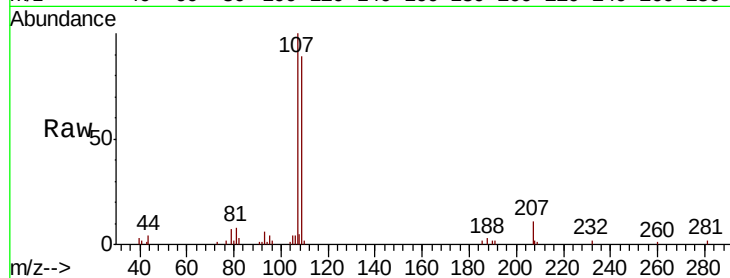
107 100

109 94.9 75.5 113.3

Manual Integrations
APPROVED

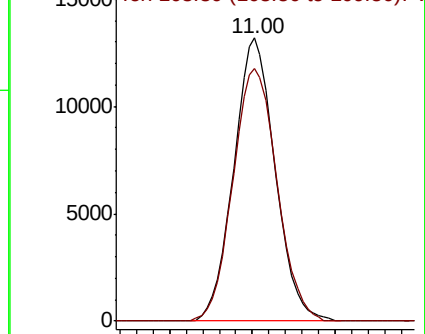
MMDadoda

11/21/2019 11:07:36 AM

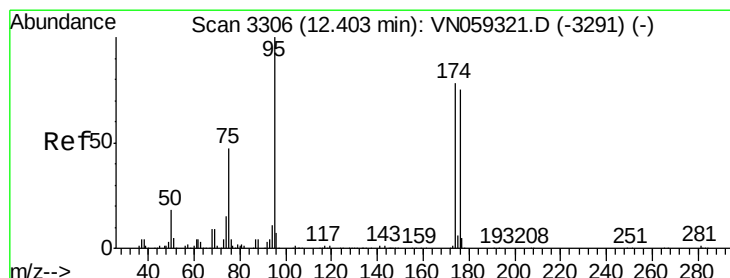
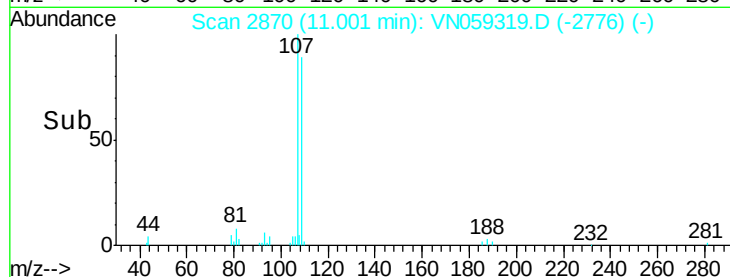


Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V



Time-->



#62

4-Bromofluorobenzene

Concen: 4.029 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN059319.D

Acq: 20 Nov 2019 11:46

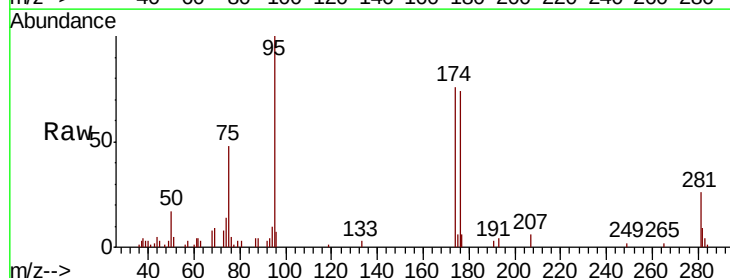
Tgt Ion: 95 Resp: 22372

Ion Ratio Lower Upper

95 100

174 77.3 0.0 158.2

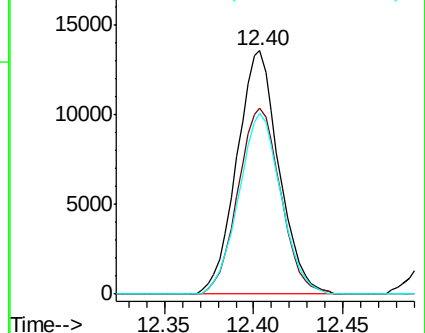
176 74.7 0.0 151.8



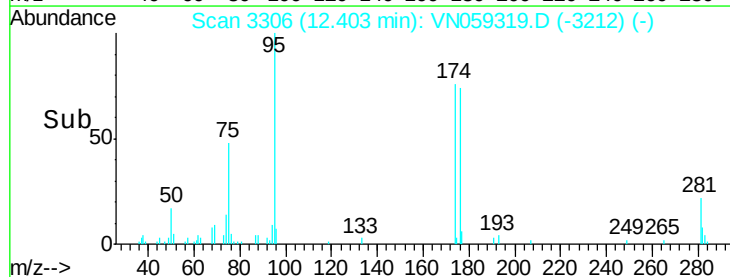
Abundance Ion 94.90 (94.60 to 95.60): VN0

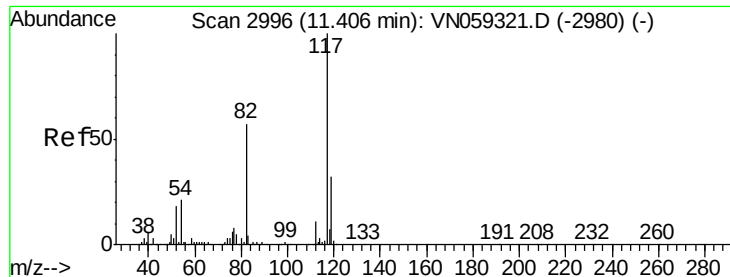
Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



Time-->





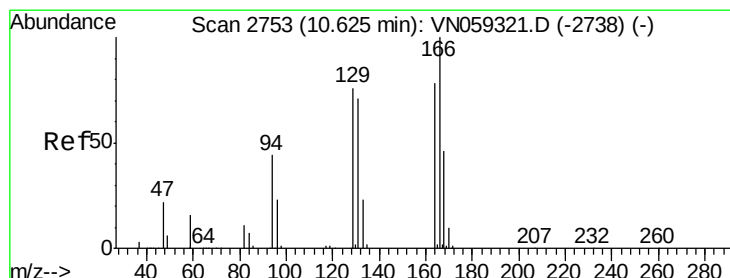
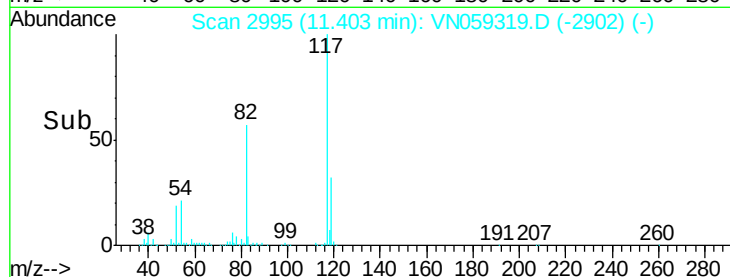
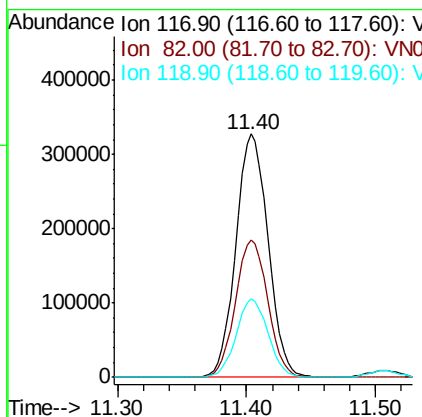
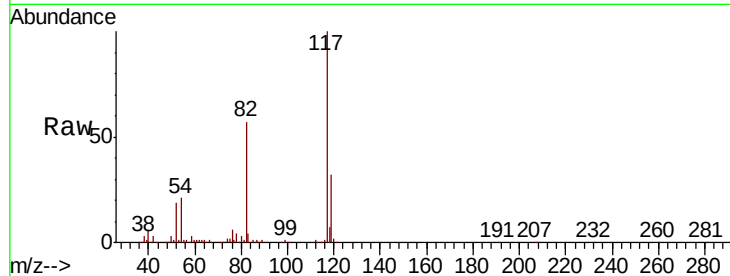
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2995
Delta R.T. -0.00 min
Lab File: VN059319.D
Acq: 20 Nov 2019 11:46

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
117	100		
82	56.6	45.8	68.8
119	32.3	25.8	38.6

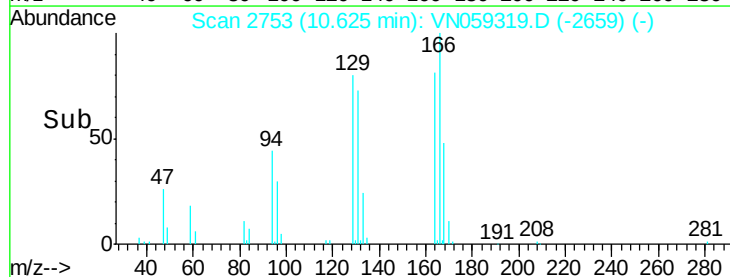
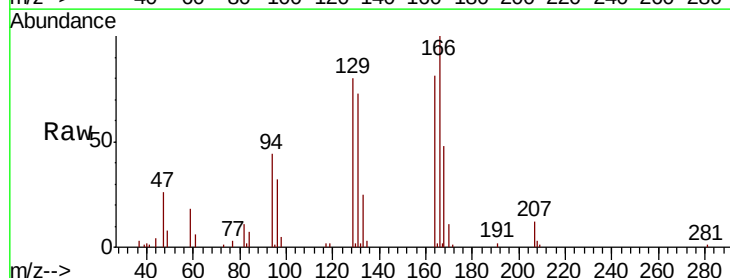
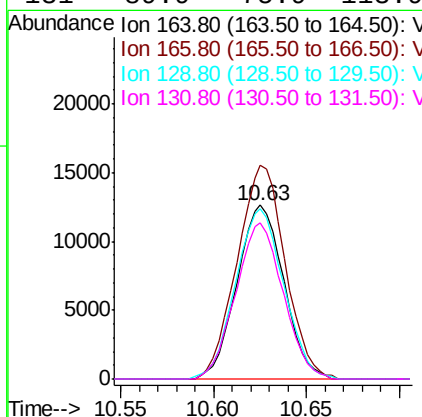
Manual Integrations
APPROVED

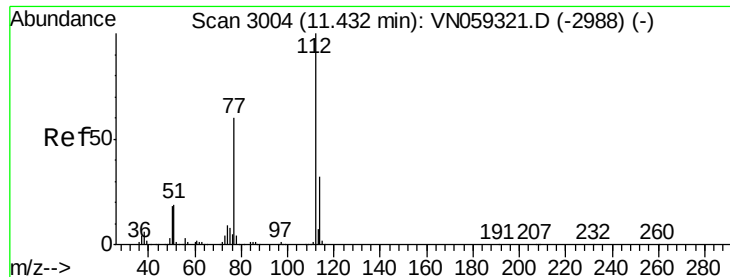
MMDadoda
11/21/2019 11:07:36 AM



#64
Tetrachloroethene
Concen: 5.755 ug/l
RT: 10.63 min Scan# 2753
Delta R.T. 0.00 min
Lab File: VN059319.D
Acq: 20 Nov 2019 11:46

Tgt Ion	Ratio	Lower	Upper
164	100		
166	122.9	101.5	152.3
129	98.2	78.3	117.5
131	89.9	75.9	113.9





#65

Chlorobenzene

Concen: 5.525 ug/l

RT: 11.43 min Scan# 3003

Delta R.T. -0.00 min

Lab File: VN059319.D

Acq: 20 Nov 2019 11:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion:112 Resp: 61188

Ion Ratio Lower Upper

112 100

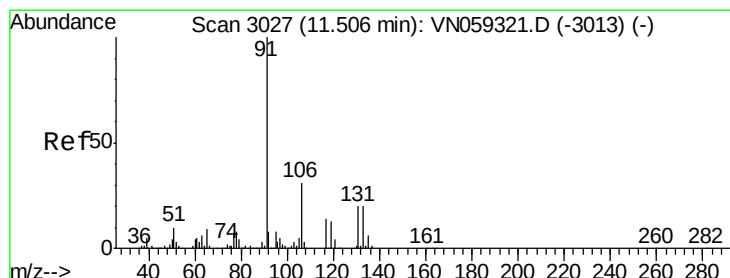
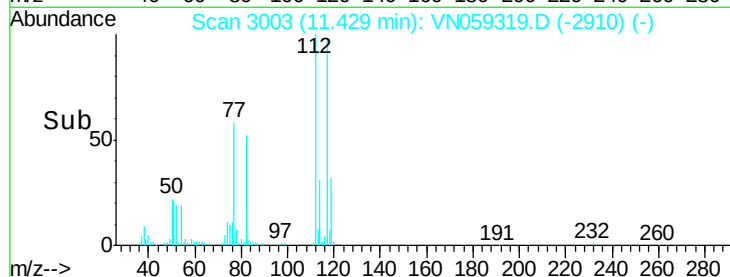
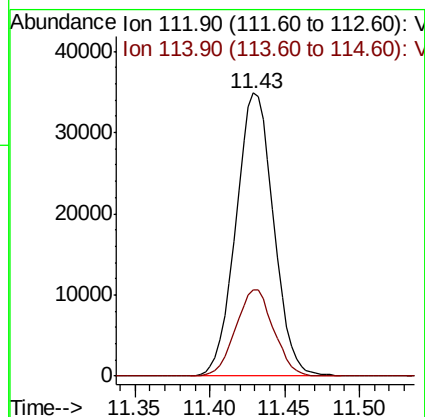
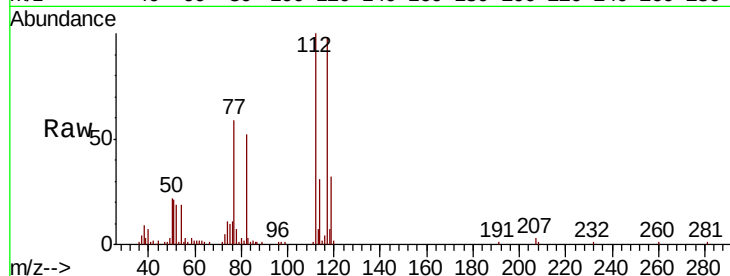
114 30.6 25.2 37.8

Manual Integrations

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#66

1,1,1,2-Tetrachloroethane

Concen: 5.341 ug/l

RT: 11.51 min Scan# 3027

Delta R.T. -0.00 min

Lab File: VN059319.D

Acq: 20 Nov 2019 11:46

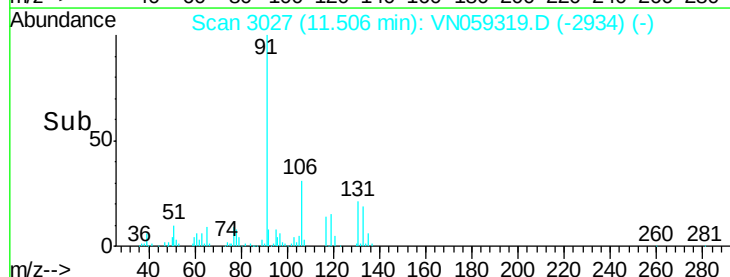
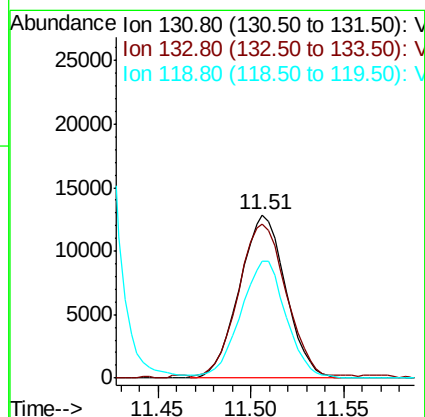
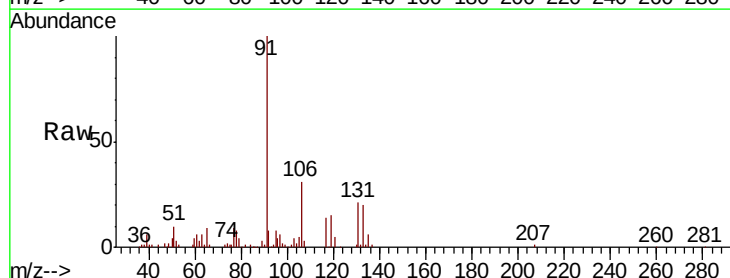
Tgt Ion:131 Resp: 22189

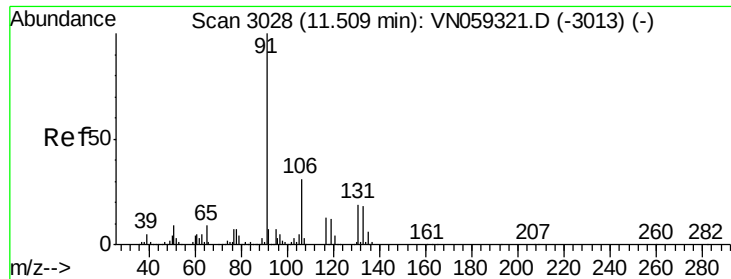
Ion Ratio Lower Upper

131 100

133 95.4 47.4 142.3

119 71.0 33.2 99.6





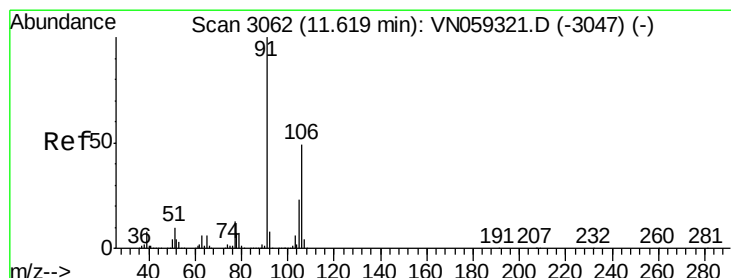
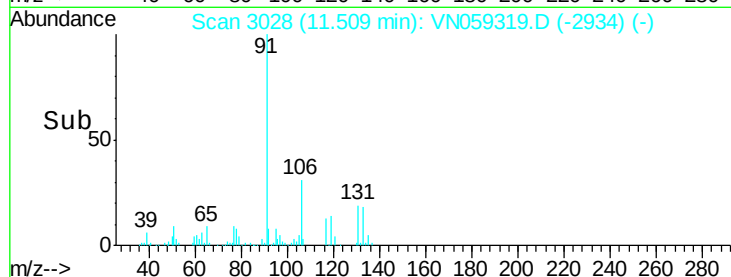
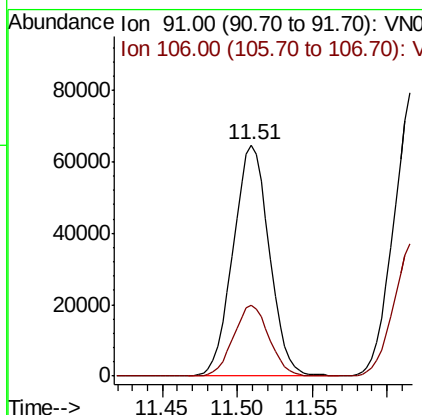
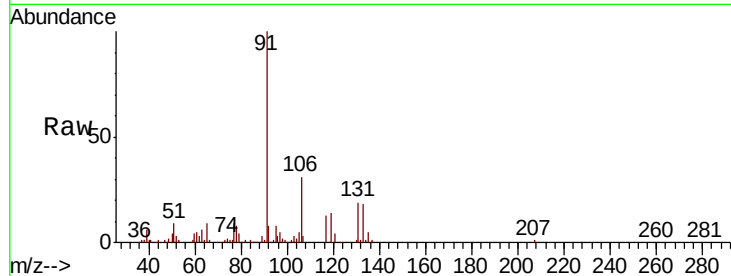
#67
Ethyl Benzene
Concen: 5.537 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. 0.00 min
Lab File: VN059319.D
Acq: 20 Nov 2019 11:46

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion: 91 Resp: 108788
Ion Ratio Lower Upper
91 100
106 30.7 24.1 36.1

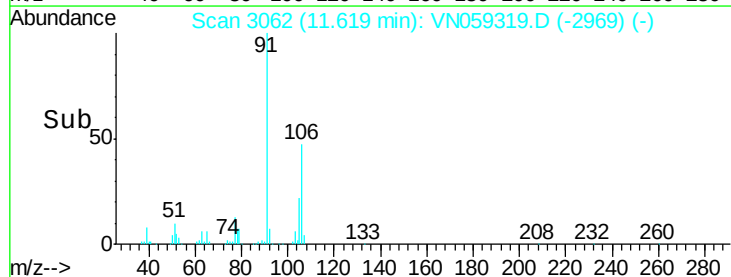
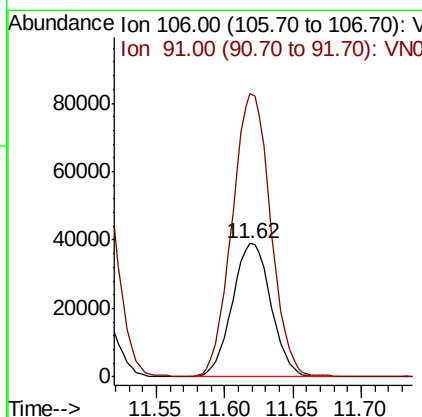
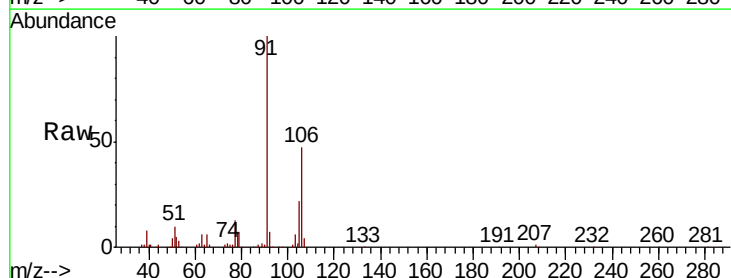
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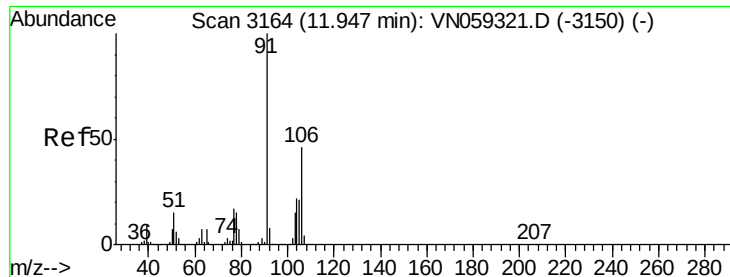
MMDadoda
11/21/2019 11:07:36 AM



#68
m/p-Xylenes
Concen: 10.437 ug/l
RT: 11.62 min Scan# 3062
Delta R.T. -0.00 min
Lab File: VN059319.D
Acq: 20 Nov 2019 11:46

Tgt Ion: 106 Resp: 76818
Ion Ratio Lower Upper
106 100
91 211.6 164.7 247.1





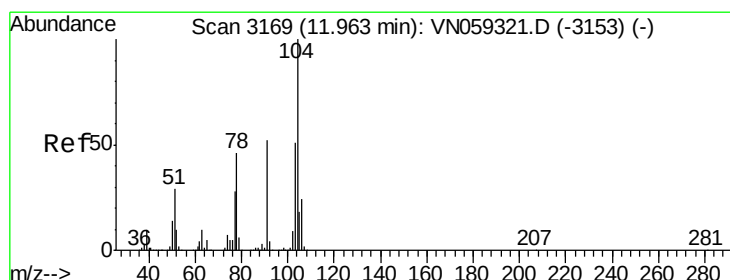
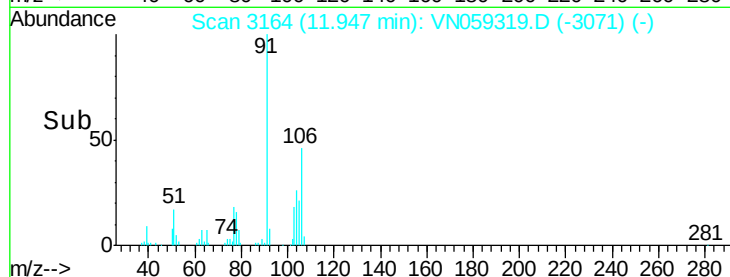
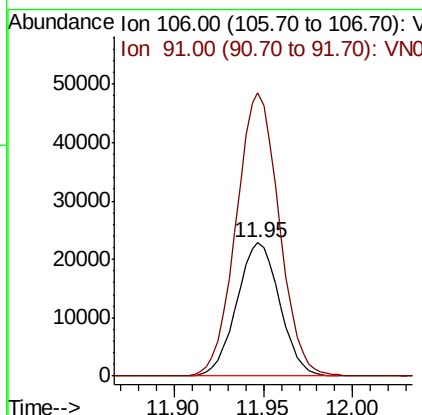
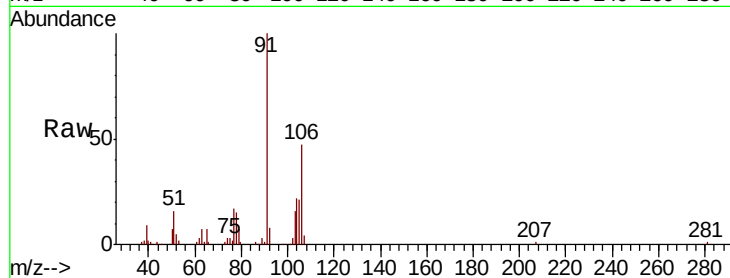
#69
o-Xylene
Concen: 5.378 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. -0.00 min
Lab File: VN059319.D
Acq: 20 Nov 2019 11:46

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion:106 Resp: 38255
Ion Ratio Lower Upper
106 100
91 212.6 110.1 330.3

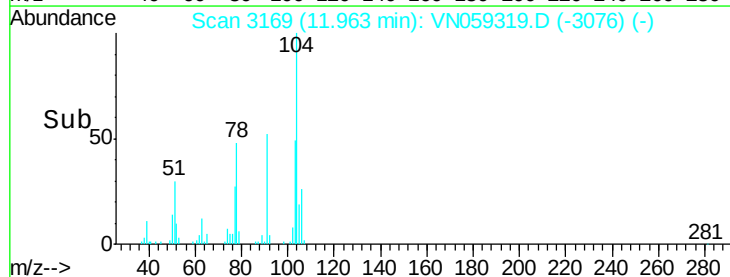
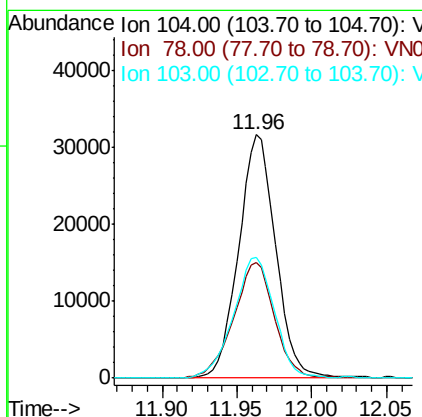
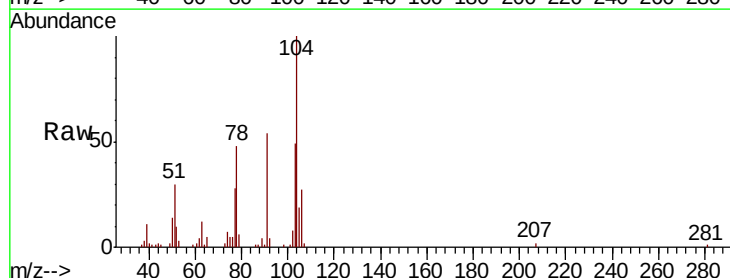
Manual Integrations
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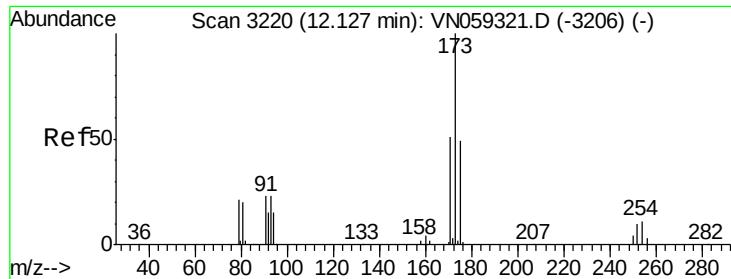
MMDadoda
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#70
Styrene
Concen: 4.881 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. -0.00 min
Lab File: VN059319.D
Acq: 20 Nov 2019 11:46

Tgt Ion:104 Resp: 54600
Ion Ratio Lower Upper
104 100
78 52.4 41.2 61.8
103 54.7 43.8 65.6





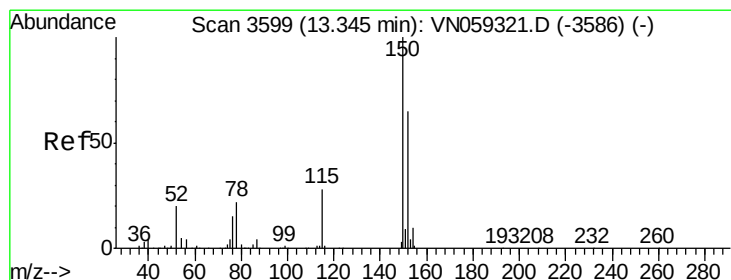
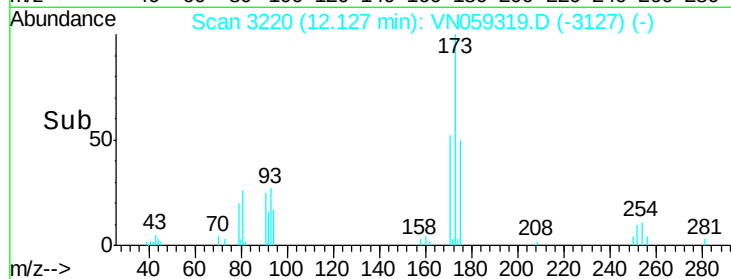
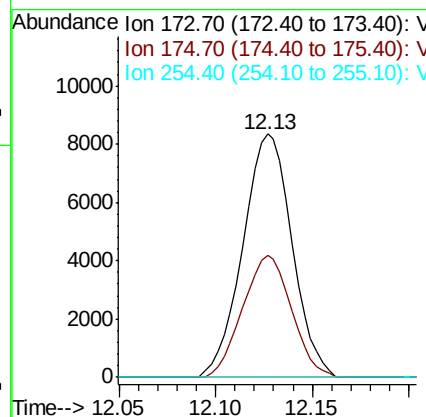
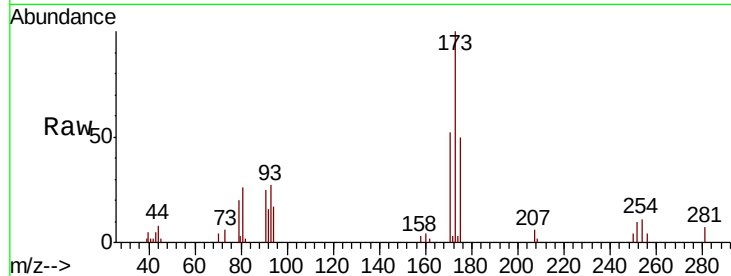
#71
Bromoform
Concen: 4.580 ug/l
RT: 12.13 min Scan# 3220
Delta R.T. -0.00 min
Lab File: VN059319.D
Acq: 20 Nov 2019 11:46

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
173	100		
175	49.5	24.2	72.6
254	0.0	0.1	0.1#

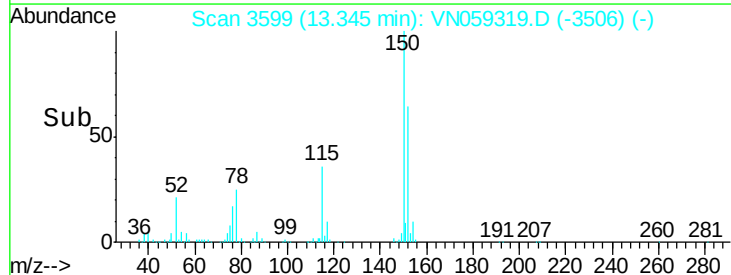
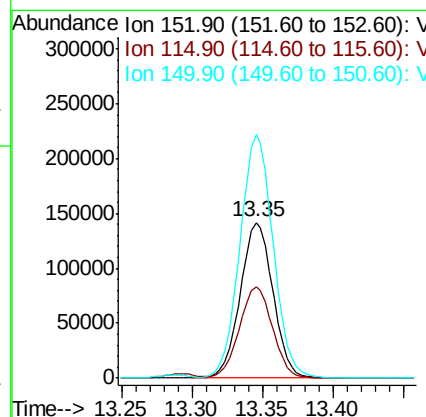
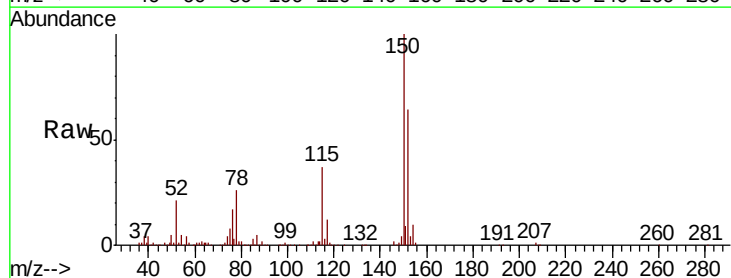
Manual Integrations
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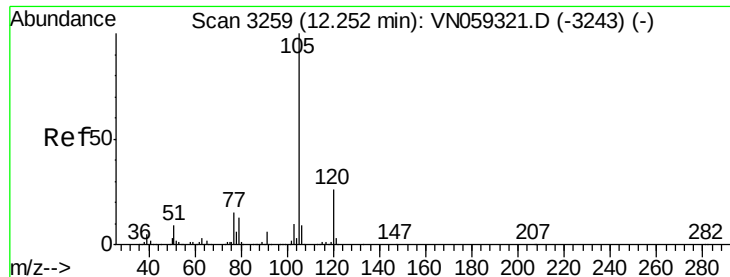
MMDadoda
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#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3599
Delta R.T. -0.00 min
Lab File: VN059319.D
Acq: 20 Nov 2019 11:46

Tgt Ion	Ratio	Lower	Upper
152	100		
115	59.2	29.4	88.2
150	158.3	0.0	345.8





#73

Isopropylbenzene

Concen: 5.997 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. -0.00 min

Lab File: VN059319.D

Acq: 20 Nov 2019 11:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion: 105 Resp: 100788

Ion Ratio Lower Upper

105 100

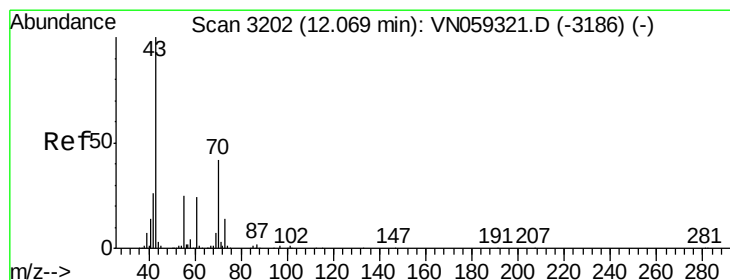
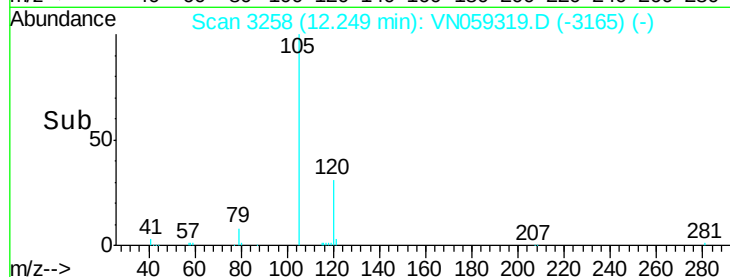
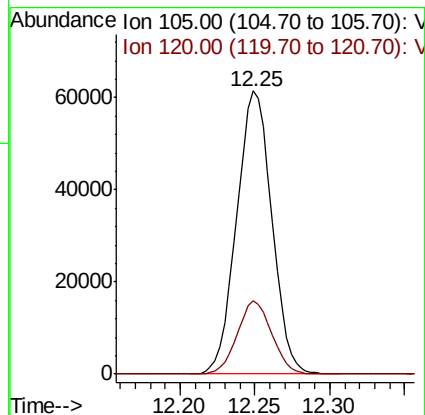
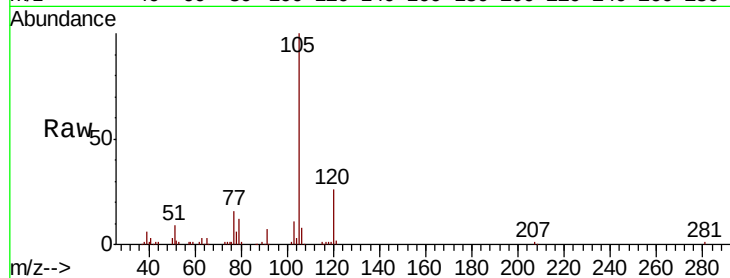
120 25.3 13.1 39.3

Manual Integrations

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#74

N-ethyl acetate

Concen: 4.968 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. -0.00 min

Lab File: VN059319.D

Acq: 20 Nov 2019 11:46

Tgt Ion: 43 Resp: 35379

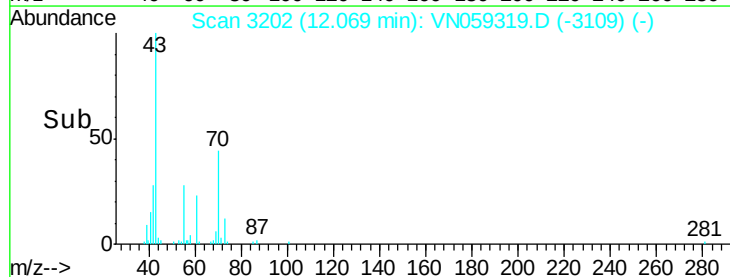
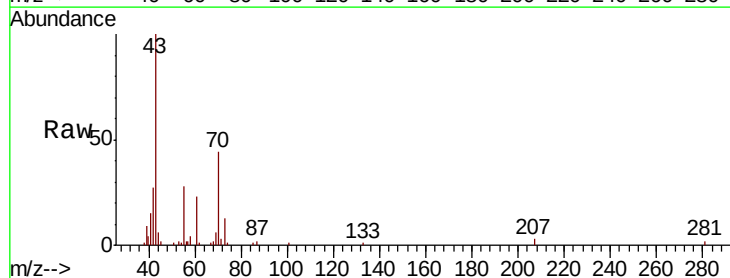
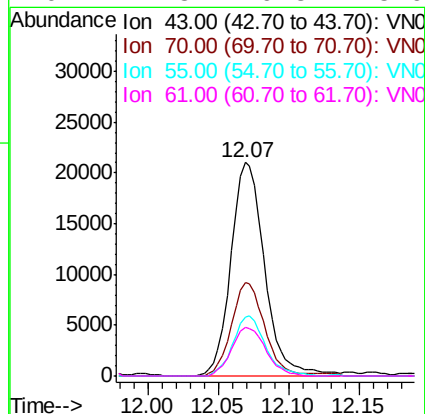
Ion Ratio Lower Upper

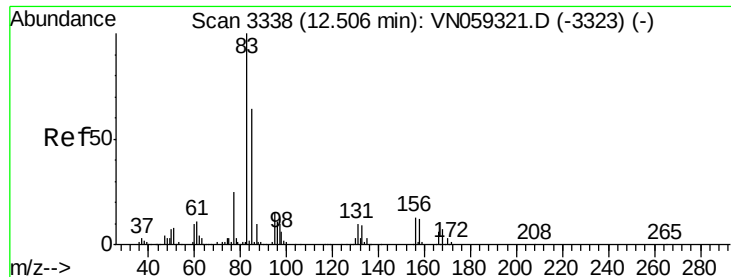
43 100

70 42.9 32.2 48.4

55 27.0 20.4 30.6

61 22.8 19.3 28.9





#75

1,1,2,2-Tetrachloroethane

Concen: 5.789 ug/l

RT: 12.51 min Scan# 3338

Delta R.T. 0.00 min

Lab File: VN059319.D

Acq: 20 Nov 2019 11:46

Instrument :

MSVOA_N

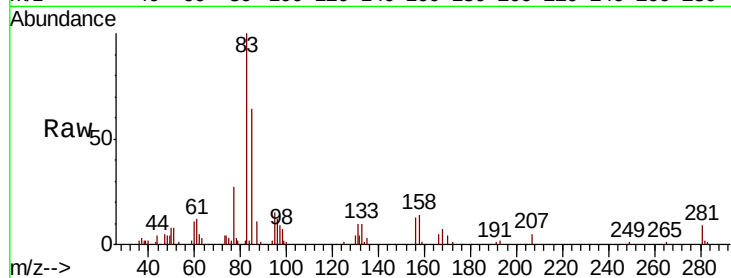
ClientSampleId :

VSTDIC005

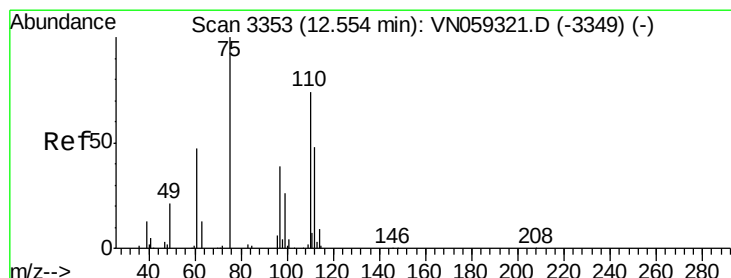
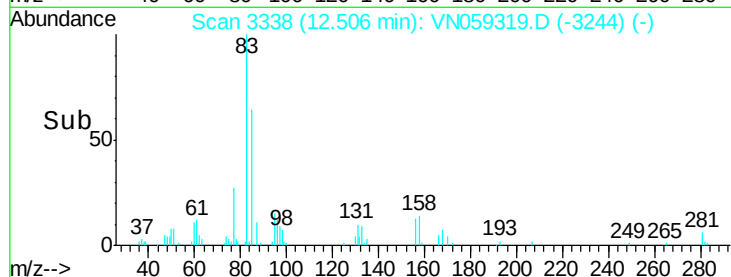
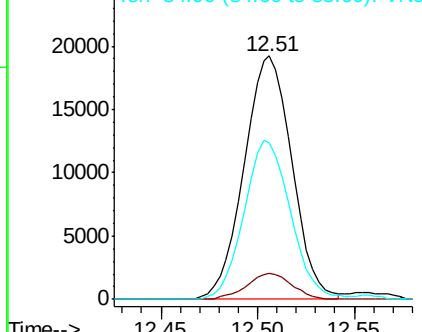
Tot Ion:	83	Resp:	33134
Ion Ratio	Lower	Upper	
83	100		
131	10.0	4.9	14.6
85	63.6	32.4	97.2

Manual Integrations
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Abundance Ion 82.90 (82.60 to 83.60): VN059319.D (-3244) (-)



#76

1,2,3-Trichloropropane

Concen: 5.328 ug/l m

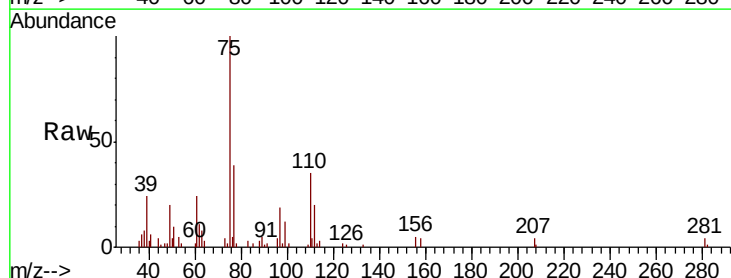
RT: 12.55 min Scan# 3353

Delta R.T. 0.00 min

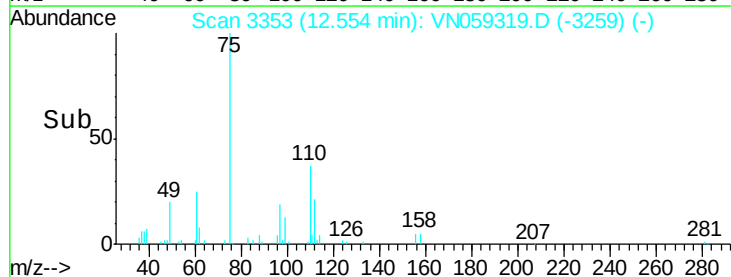
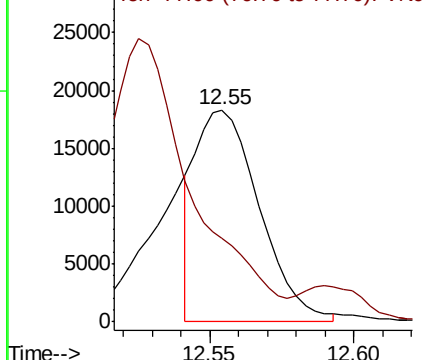
Lab File: VN059319.D

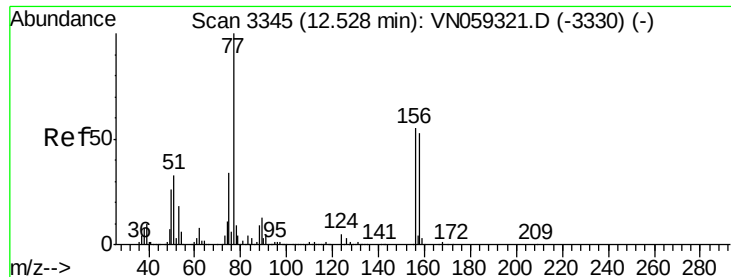
Acq: 20 Nov 2019 11:46

Tgt Ion:	75	Resp:	28026
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0



Abundance Ion 74.90 (74.60 to 75.60): VN059319.D (-3259) (-)





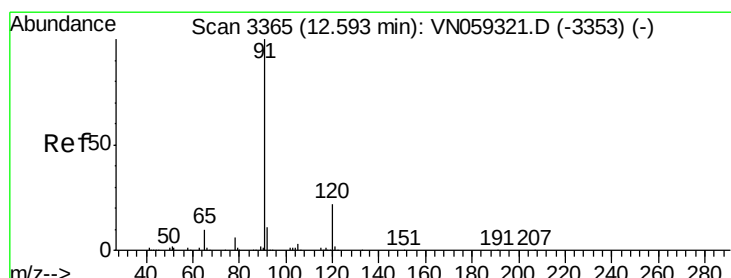
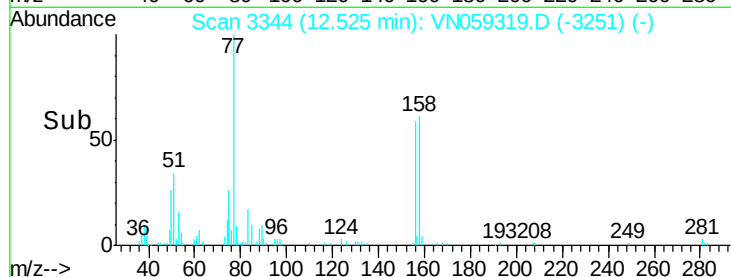
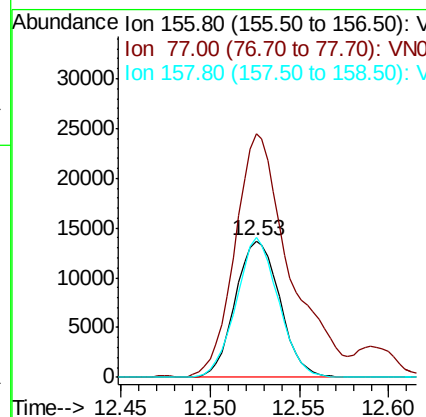
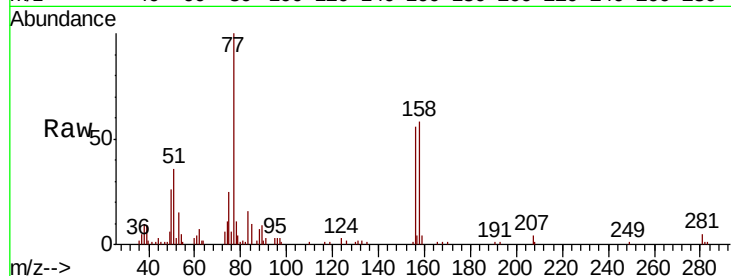
#77
Bromobenzene
Concen: 5.665 ug/l
RT: 12.53 min Scan# 3344
Delta R.T. -0.00 min
Lab File: VN059319.D
Acq: 20 Nov 2019 11:46

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
156	100		
77	217.6	112.8	338.3
158	96.6	48.4	145.3

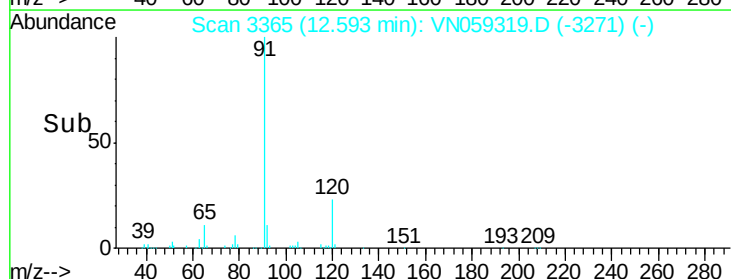
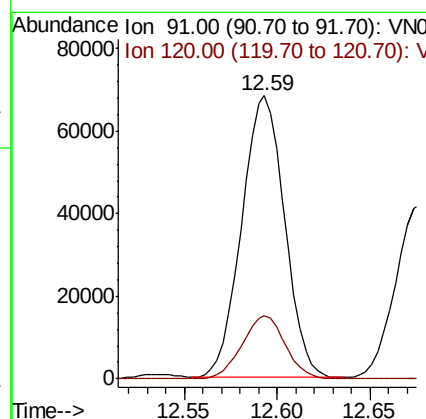
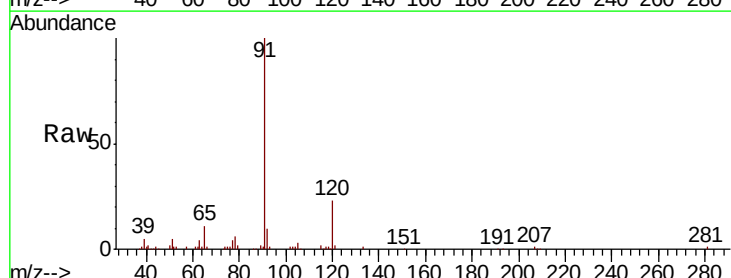
Manual Integrations
APPROVED

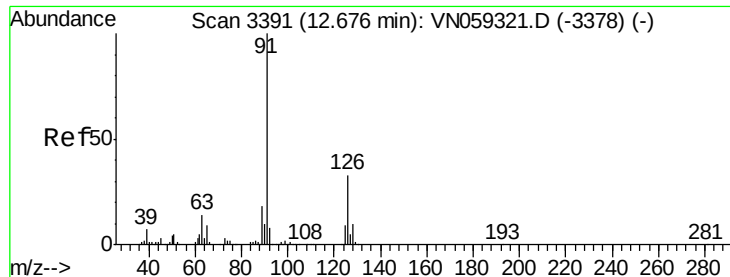
MMDadoda
11/21/2019 11:07:36 AM



#78
n-propylbenzene
Concen: 5.711 ug/l
RT: 12.59 min Scan# 3365
Delta R.T. 0.00 min
Lab File: VN059319.D
Acq: 20 Nov 2019 11:46

Tgt Ion	Ratio	Lower	Upper
91	100		
120	22.5	11.2	33.5





#79

2-Chlorotoluene

Concen: 5.725 ug/l

RT: 12.68 min Scan# 3391

Delta R.T. 0.00 min

Lab File: VN059319.D

Acq: 20 Nov 2019 11:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion: 91 Resp: 68347

Ion Ratio Lower Upper

91 100

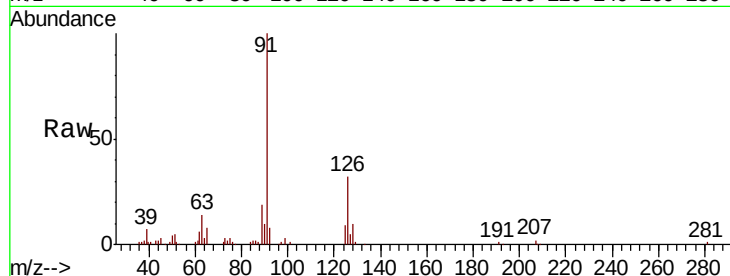
126 33.8 16.7 50.1

Manual Integrations

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Abundance Ion 91.00 (90.70 to 91.70): VN059319.D (-3297) (-)

Ion 125.90 (125.60 to 126.60): VN059319.D (-3297) (-)

60000

40000

20000

0

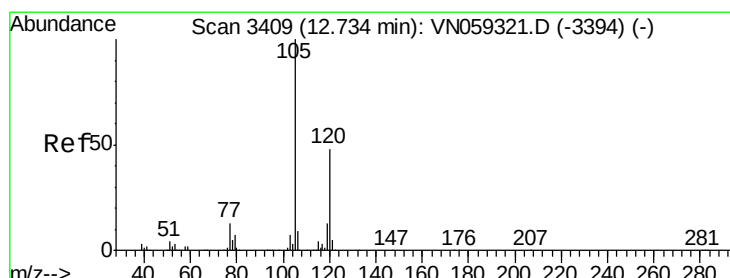
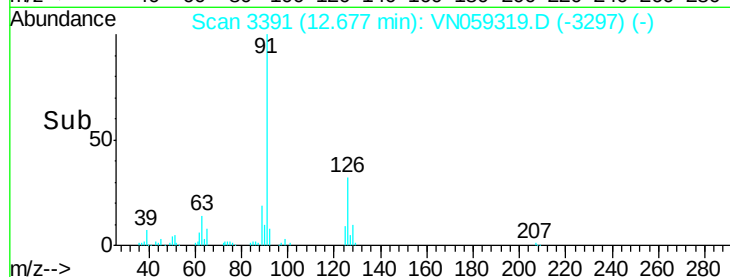
12.68

12.60

12.65

12.70

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 5.788 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. -0.00 min

Lab File: VN059319.D

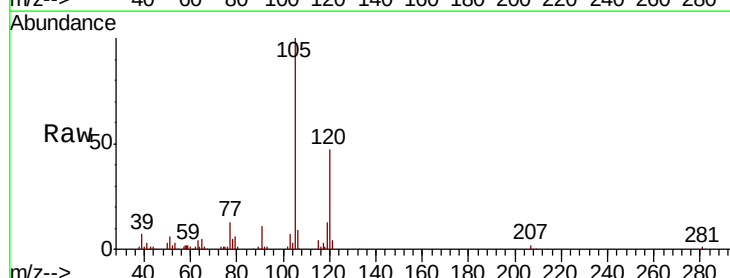
Acq: 20 Nov 2019 11:46

Tgt Ion: 105 Resp: 82425

Ion Ratio Lower Upper

105 100

120 47.2 24.0 72.0



Abundance Ion 105.00 (104.70 to 105.70): VN059319.D (-3316) (-)

Ion 120.00 (119.70 to 120.70): VN059319.D (-3316) (-)

60000

50000

40000

30000

20000

10000

0

12.73

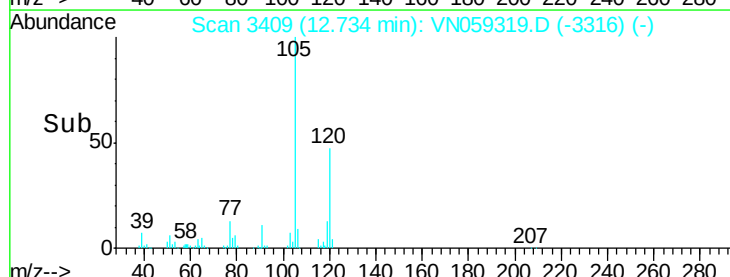
12.65

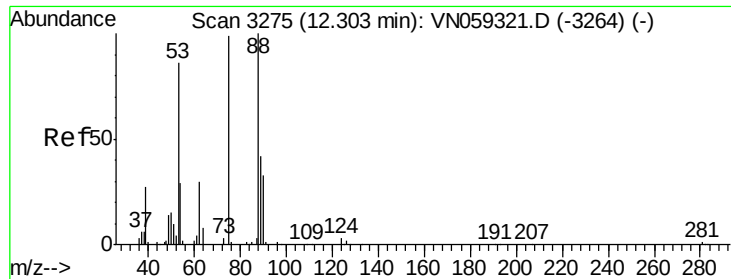
12.70

12.75

12.80

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 4.954 ug/l

RT: 12.30 min Scan# 3275

Delta R.T. 0.00 min

Lab File: VN059319.D

Acq: 20 Nov 2019 11:46

Instrument :

MSVOA_N

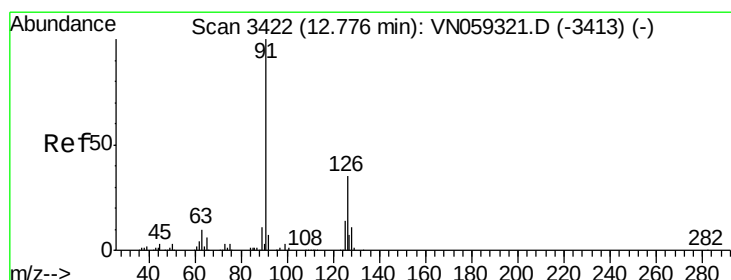
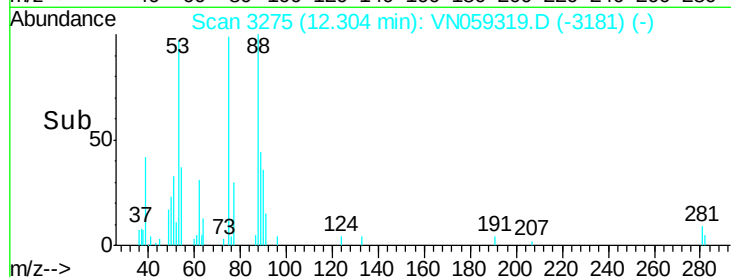
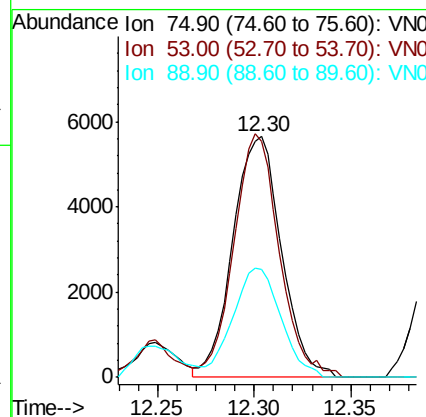
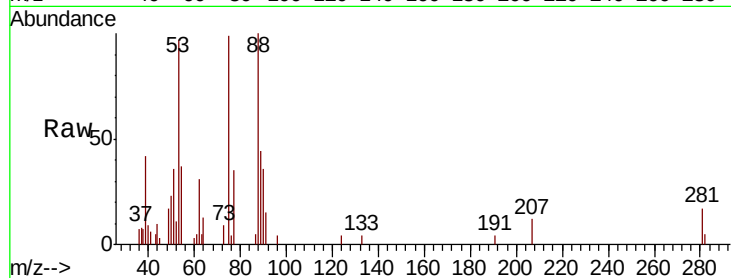
ClientSampleId :

VSTDIC005

Tot Ion:	75	Resp:	9865
Ion	Ratio	Lower	Upper
75	100		
53	94.7	72.2	108.2
89	44.6	35.8	53.8

Manual Integrations
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#82

4-Chlorotoluene

Concen: 5.477 ug/l

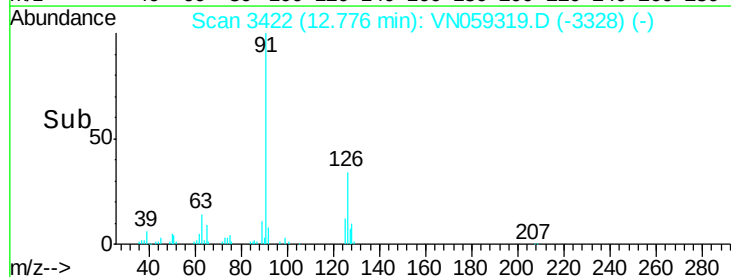
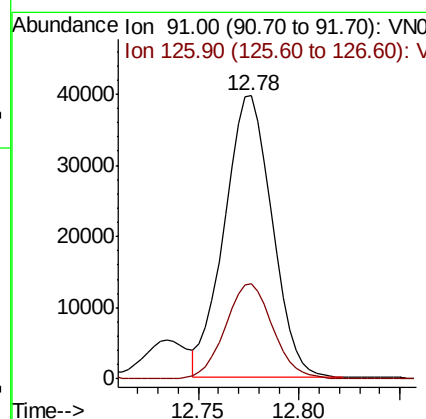
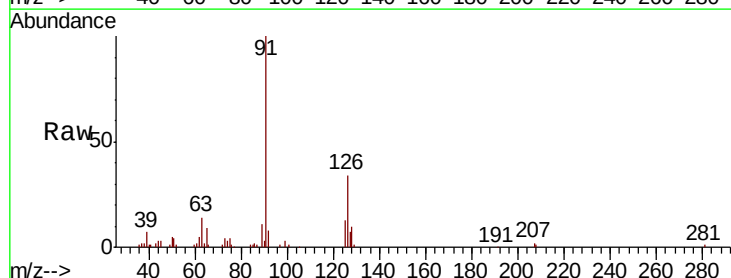
RT: 12.78 min Scan# 3422

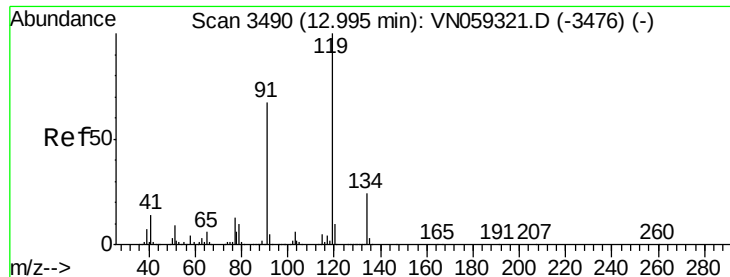
Delta R.T. 0.00 min

Lab File: VN059319.D

Acq: 20 Nov 2019 11:46

Tgt Ion:	91	Resp:	65582
Ion	Ratio	Lower	Upper
91	100		
126	33.6	16.1	48.2





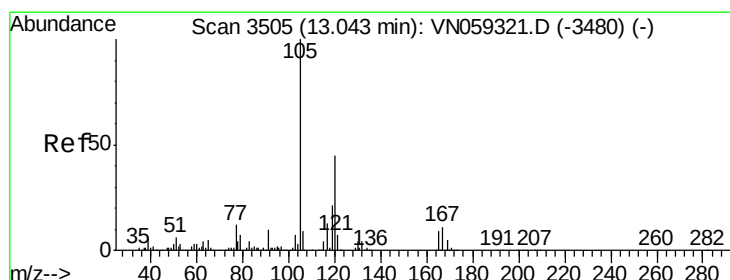
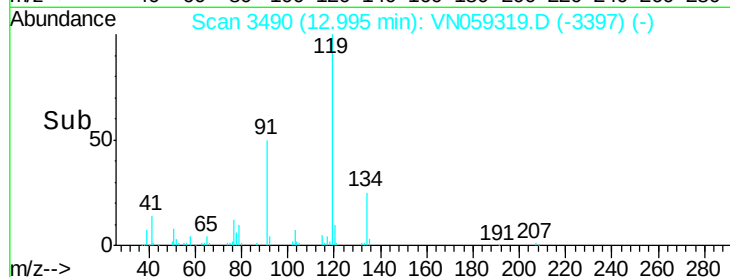
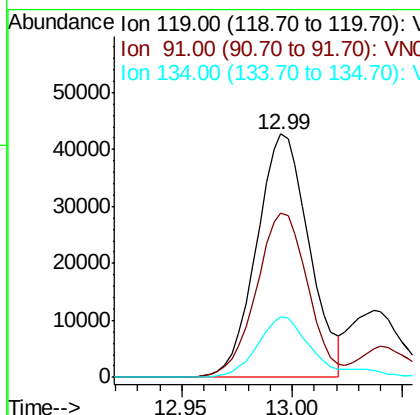
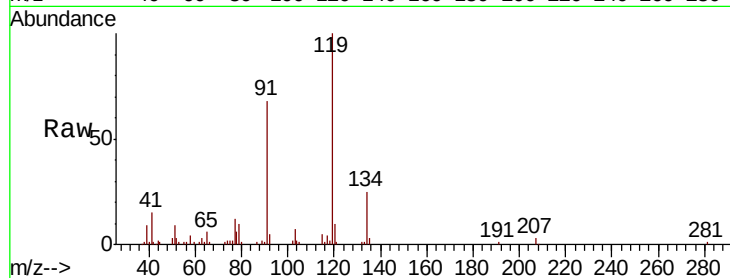
#83
 tert-Butylbenzene
 Concen: 5.737 ug/l
 RT: 12.99 min Scan# 3490
 Delta R.T. -0.00 min
 Lab File: VN059319.D
 Acq: 20 Nov 2019 11:46

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
119	100		
91	66.7	33.2	99.6
134	26.7	12.7	38.1

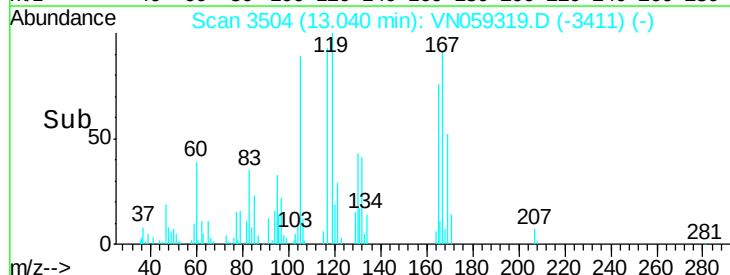
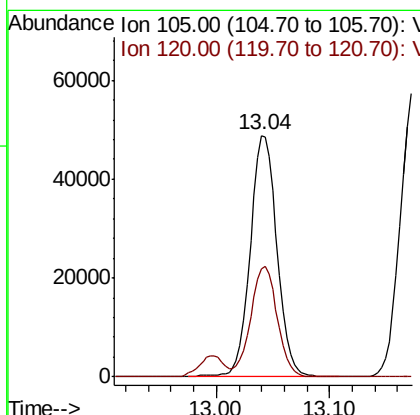
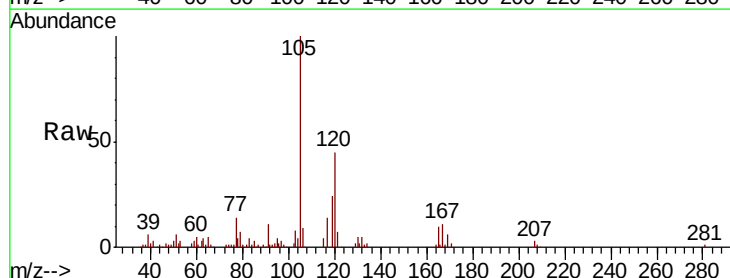
Manual Integrations
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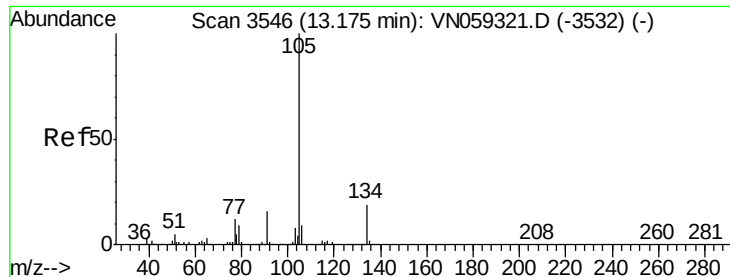
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#84
 1,2,4-Trimethylbenzene
 Concen: 5.824 ug/l
 RT: 13.04 min Scan# 3504
 Delta R.T. -0.00 min
 Lab File: VN059319.D
 Acq: 20 Nov 2019 11:46

Tgt Ion	Ratio	Lower	Upper
105	100		
120	45.5	22.8	68.4





#85

sec-Butylbenzene

Concen: 5.849 ug/l

RT: 13.17 min Scan# 3546

Delta R.T. 0.00 min

Lab File: VN059319.D

Acq: 20 Nov 2019 11:46

Instrument :

MSVOA_N

ClientSampled :

VSTDIC005

Tot Ion:105 Resp: 93547

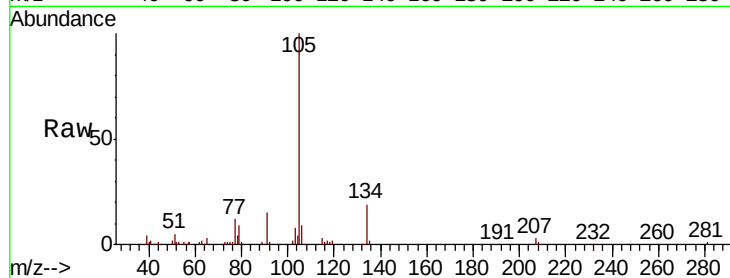
Ion Ratio Lower Upper

105 100

134 19.6 9.7 29.1

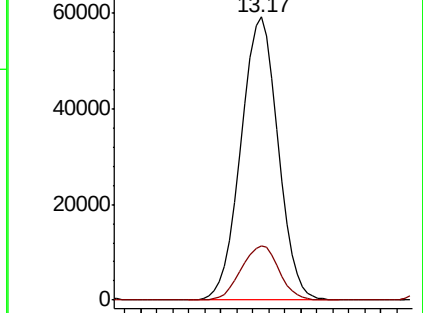
Manual Integrations
APPROVED

MMDadoda
11/21/2019 11:07:36 AM

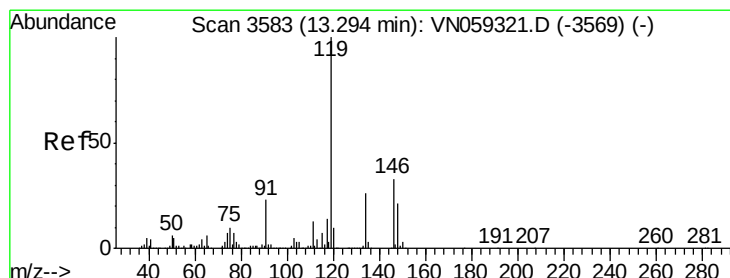
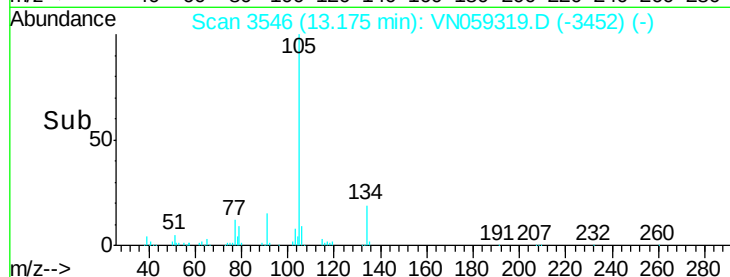


Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



Time-->



#86

p-Isopropyltoluene

Concen: 5.803 ug/l

RT: 13.29 min Scan# 3582

Delta R.T. -0.00 min

Lab File: VN059319.D

Acq: 20 Nov 2019 11:46

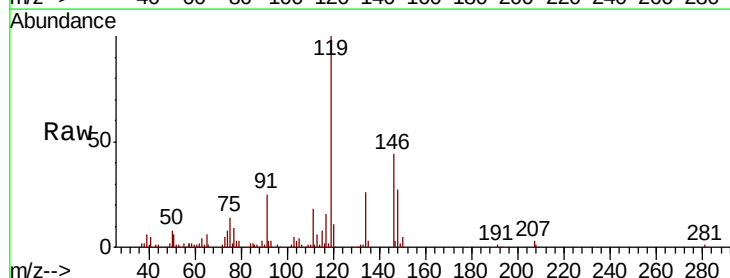
Tgt Ion:119 Resp: 81946

Ion Ratio Lower Upper

119 100

134 25.9 13.0 38.9

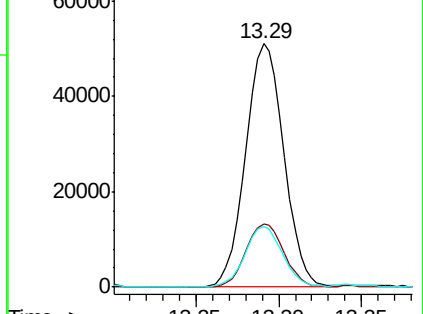
91 24.5 11.7 35.1



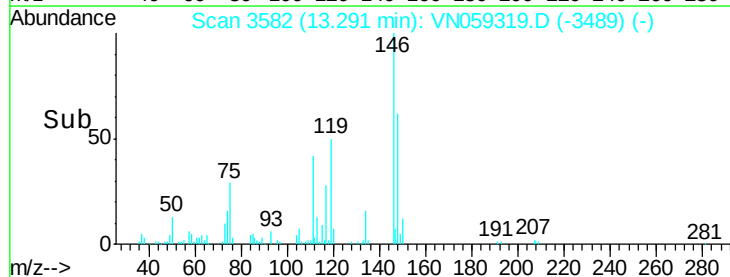
Abundance Ion 119.00 (118.70 to 119.70): V

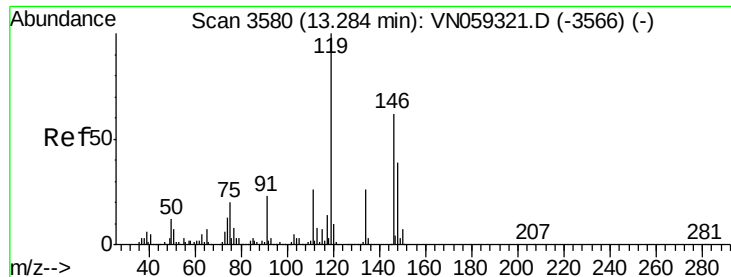
Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V



Time-->





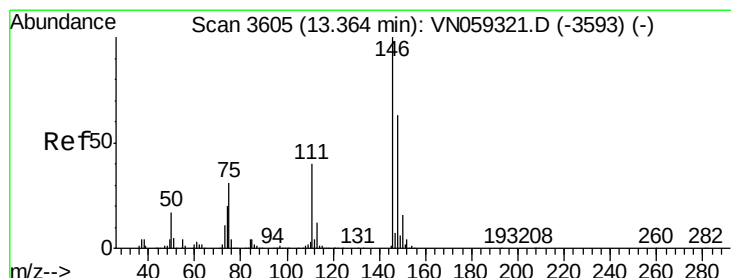
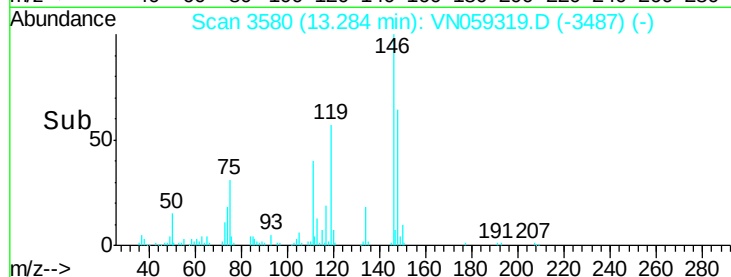
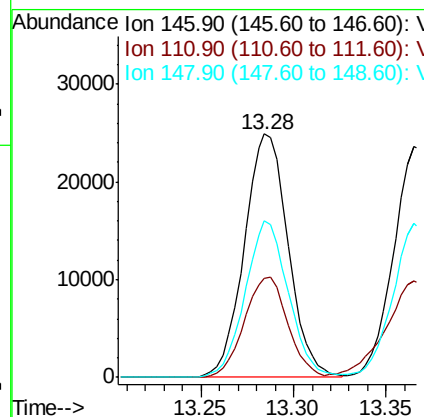
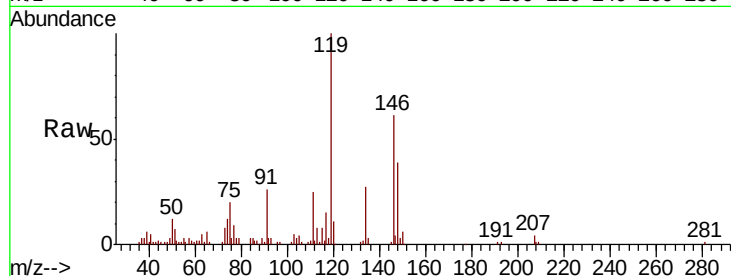
#87
 1,3-Dichlorobenzene
 Concen: 5.640 ug/l
 RT: 13.28 min Scan# 3580
 Delta R.T. -0.00 min
 Lab File: VN059319.D
 Acq: 20 Nov 2019 11:46

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
146	100		
111	40.7	20.4	61.3
148	63.4	32.2	96.6

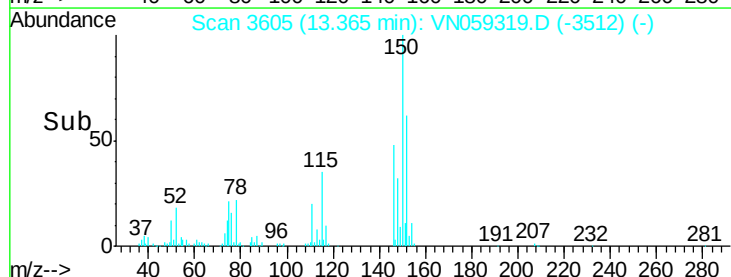
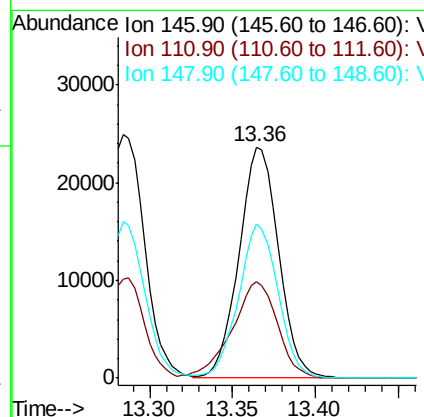
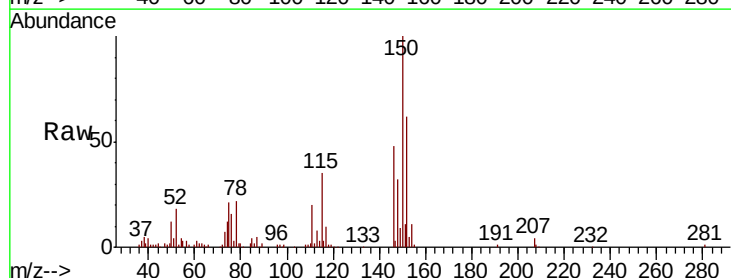
Manual Integrations
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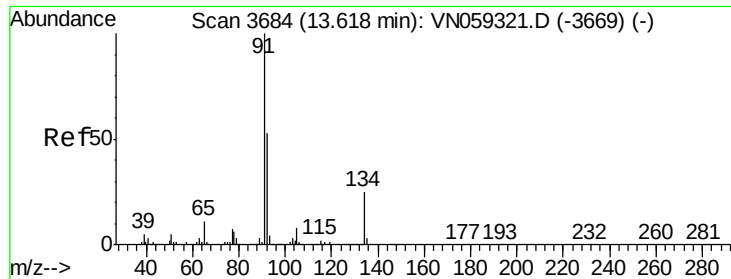
MMDadoda
 11/21/2019 11:07:36 AM



#88
 1,4-Dichlorobenzene
 Concen: 5.441 ug/l
 RT: 13.36 min Scan# 3605
 Delta R.T. -0.00 min
 Lab File: VN059319.D
 Acq: 20 Nov 2019 11:46

Tgt Ion	Ratio	Lower	Upper
146	100		
111	47.8	20.3	60.9
148	66.5	31.9	95.7





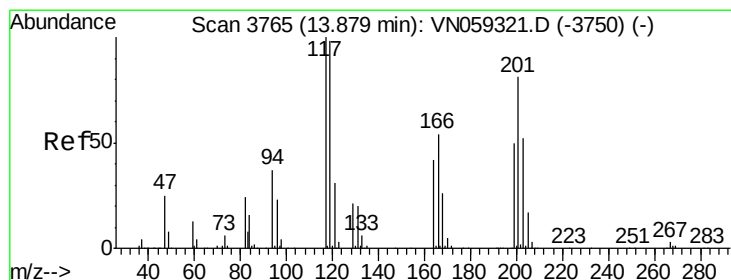
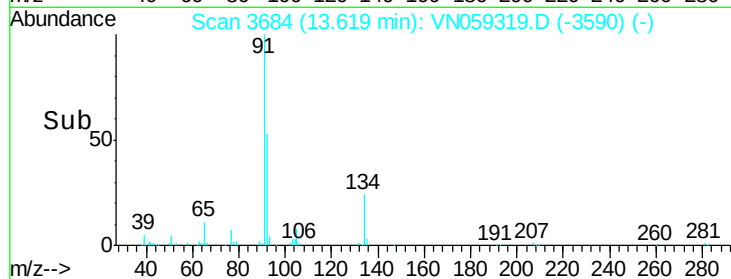
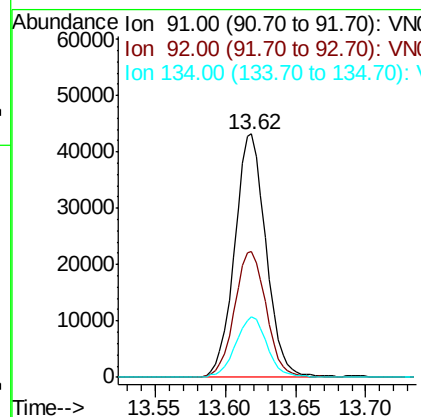
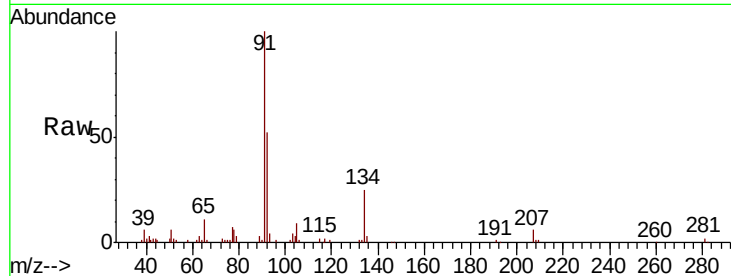
#89
n-Butylbenzene
Concen: 5.456 ug/l
RT: 13.62 min Scan# 3684
Delta R.T. 0.00 min
Lab File: VN059319.D
Acq: 20 Nov 2019 11:46

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
91	100		
92	52.1	26.1	78.3
134	24.8	12.6	37.8

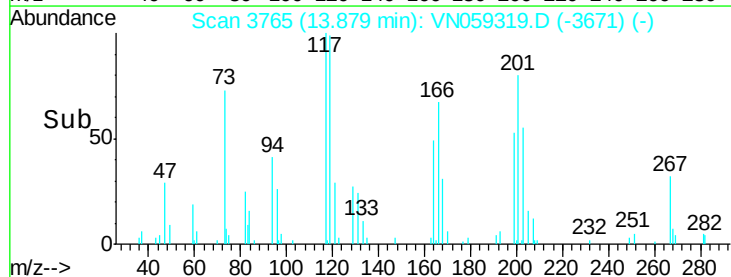
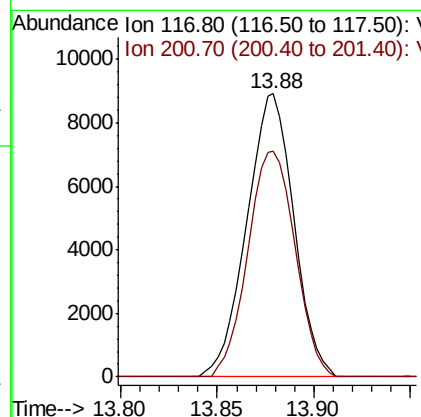
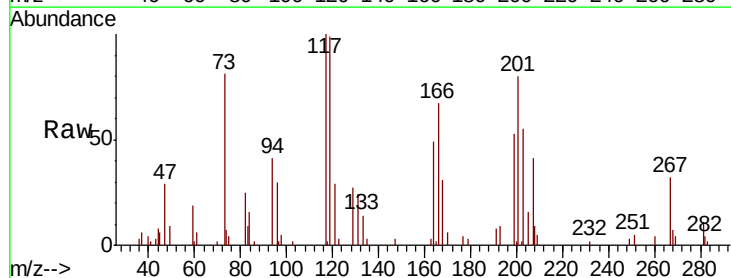
Manual Integrations
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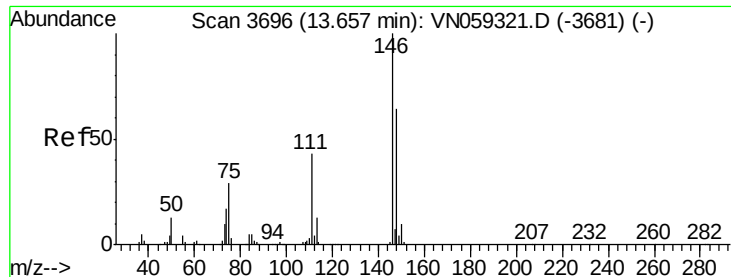
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#90
Hexachloroethane
Concen: 5.320 ug/l
RT: 13.88 min Scan# 3765
Delta R.T. 0.00 min
Lab File: VN059319.D
Acq: 20 Nov 2019 11:46

Tgt Ion	Ratio	Lower	Upper
117	100		
201	80.0	41.8	125.3





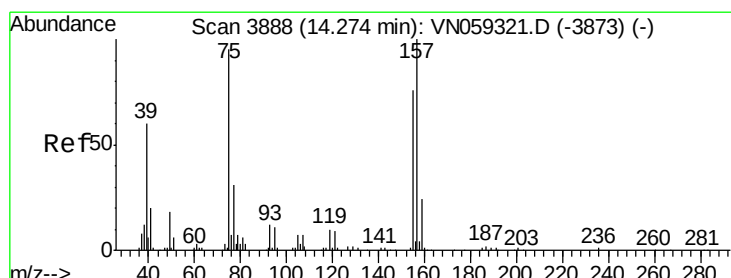
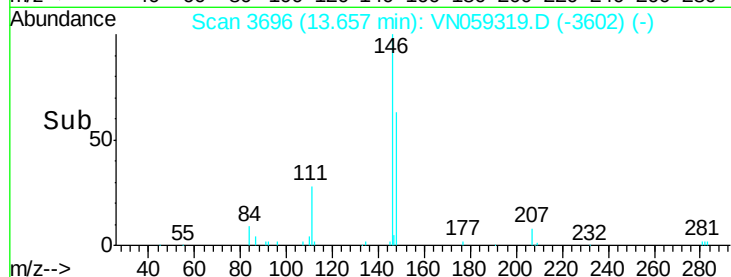
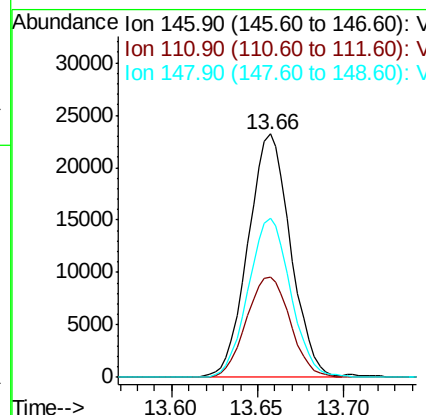
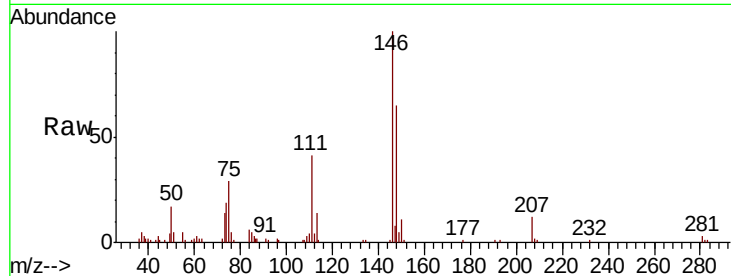
#91
 1,2-Dichlorobenzene
 Concen: 5.600 ug/l
 RT: 13.66 min Scan# 3696
 Delta R.T. 0.00 min
 Lab File: VN059319.D
 Acq: 20 Nov 2019 11:46

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
146	100		
111	42.3	21.2	63.6
148	65.0	31.6	94.7

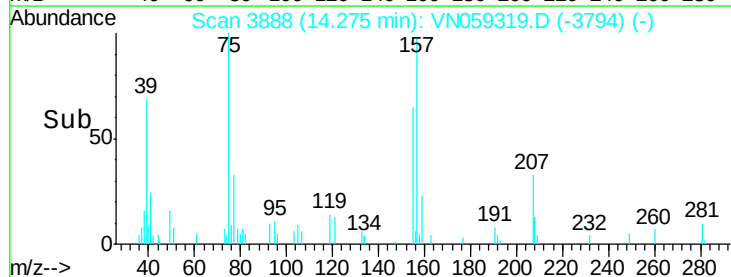
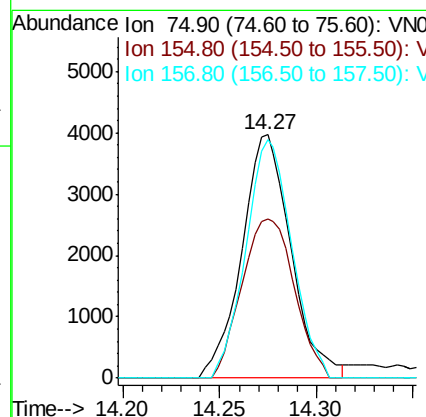
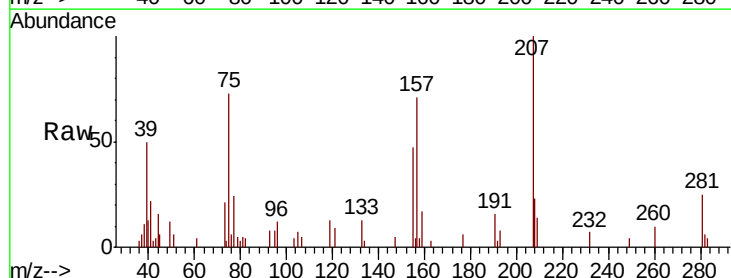
Manual Integrations
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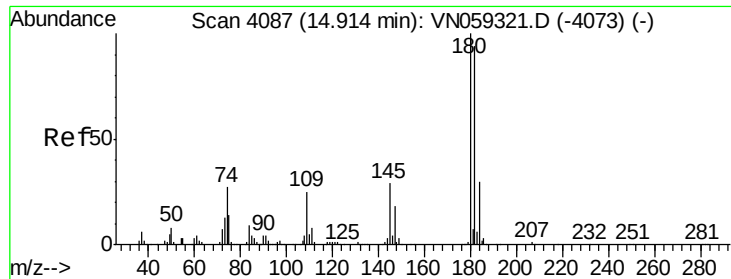
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 5.442 ug/l
 RT: 14.27 min Scan# 3888
 Delta R.T. 0.00 min
 Lab File: VN059319.D
 Acq: 20 Nov 2019 11:46

Tgt Ion	Ratio	Lower	Upper
75	100		
155	69.6	40.2	120.6
157	91.5	51.8	155.5





#93

1,2,4-Trichlorobenzene

Concen: 5.100 ug/l

RT: 14.91 min Scan# 4087

Delta R.T. 0.00 min

Lab File: VN059319.D

Acq: 20 Nov 2019 11:46

Instrument :

MSVOA_N

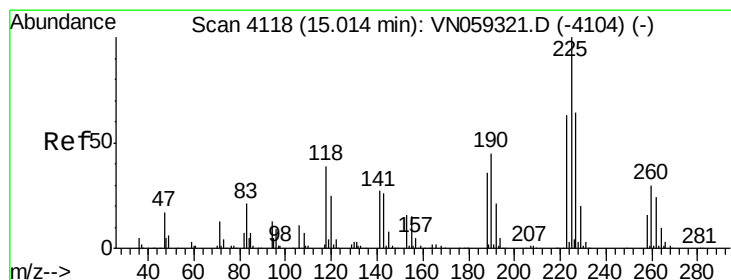
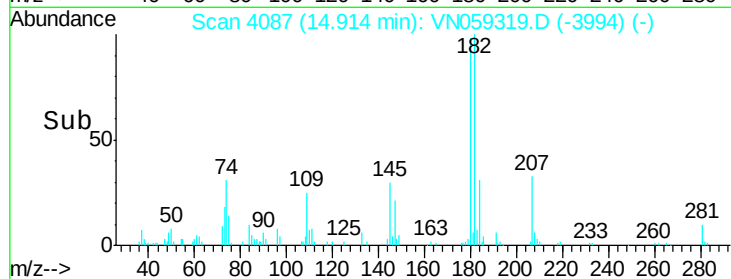
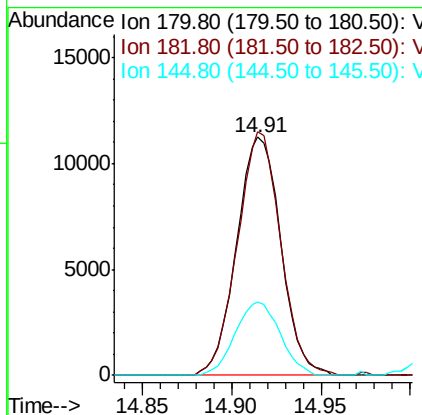
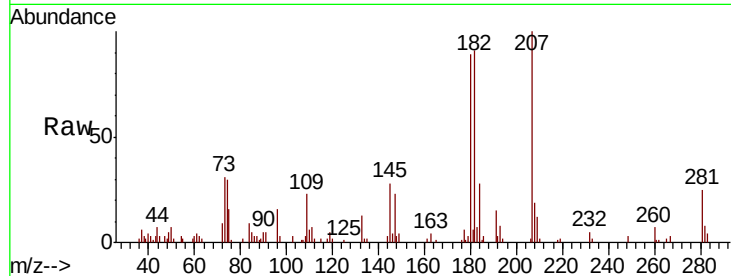
ClientSampleId :

VSTDIC005

Tot Ion:	180	Resp:	19433
Ion Ratio	Lower	Upper	
180	100		
182	99.6	48.1	144.3
145	31.2	15.1	45.3

Manual Integrations
APPROVED

MMDadoda
11/21/2019 11:07:36 AM



#94

Hexachlorobutadiene

Concen: 6.087 ug/l

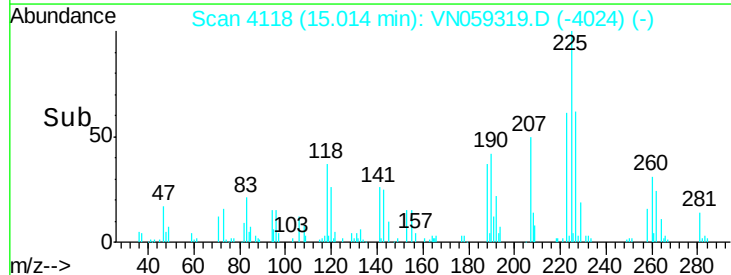
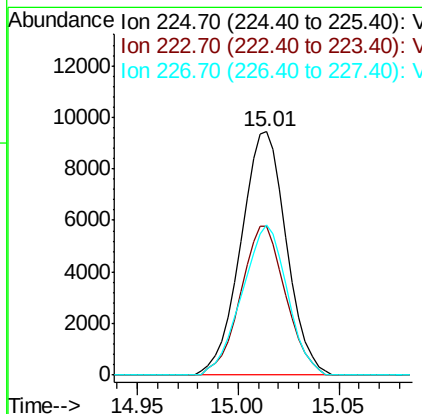
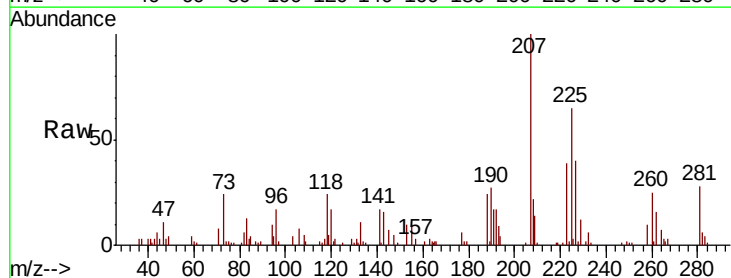
RT: 15.01 min Scan# 4118

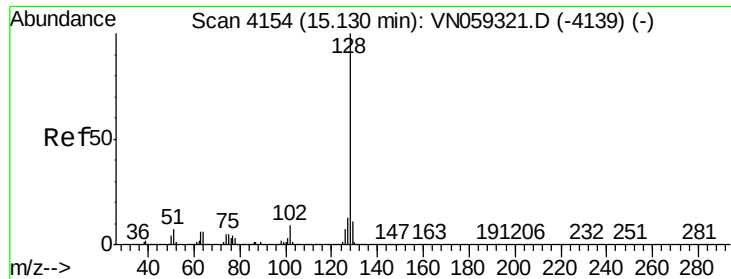
Delta R.T. 0.00 min

Lab File: VN059319.D

Acq: 20 Nov 2019 11:46

Tgt Ion:	225	Resp:	14929
Ion Ratio	Lower	Upper	
225	100		
223	60.2	31.3	93.9
227	61.1	31.5	94.5





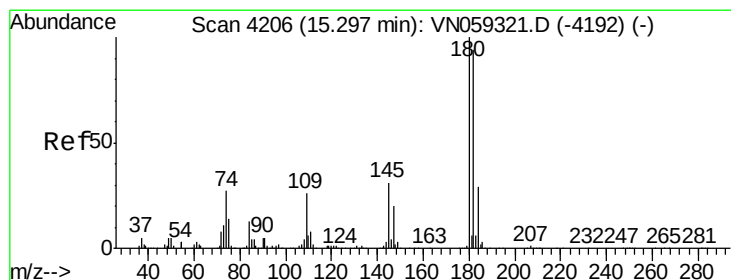
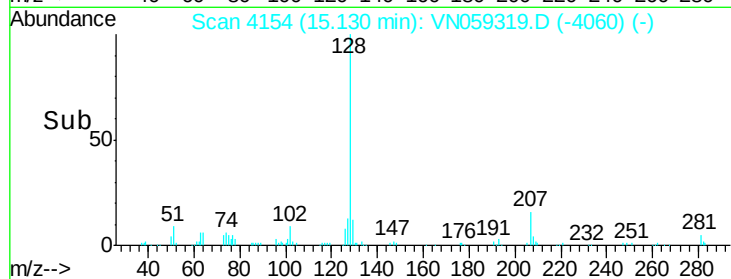
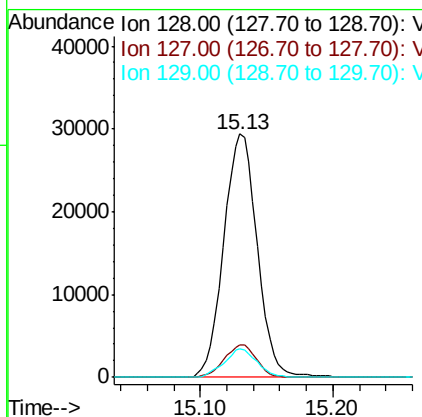
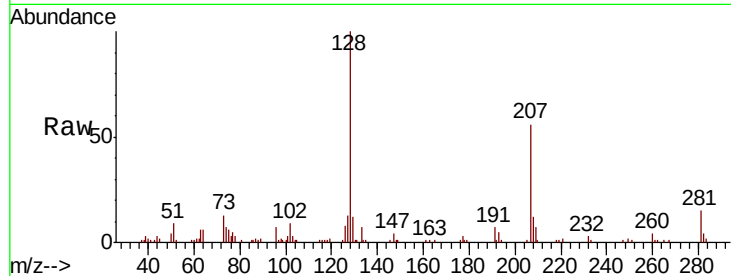
#95
Naphthalene
Concen: 4.922 ug/l
RT: 15.13 min Scan# 4154
Delta R.T. 0.00 min
Lab File: VN059319.D
Acq: 20 Nov 2019 11:46

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.7	10.2	15.2
129	11.4	8.6	12.8

Manual Integrations
APPROVED

MMDadoda
11/21/2019 11:07:36 AM



#96
1,2,3-Trichlorobenzene
Concen: 5.457 ug/l
RT: 15.30 min Scan# 4206
Delta R.T. -0.00 min
Lab File: VN059319.D
Acq: 20 Nov 2019 11:46

Tgt Ion	Ratio	Lower	Upper
180	100		
182	92.3	47.3	141.8
145	32.7	15.8	47.3

