

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN121019\
 Data File : VN059552.D
 Acq On : 10 Dec 2019 17:00
 Operator : JC/SP
 Sample : VSTDCCC050
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Manual Integrations
 APPROVED

apatel
 12/11/2019 2:16:04 PM

Quant Time: Dec 11 06:59:31 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N120919W.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 10 01:09:52 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	271139	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	440910	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	408037	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	217723	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.01	65	187958	49.60	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.20%	
35) Dibromofluoromethane	7.57	113	135562	51.52	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.04%	
50) Toluene-d8	10.08	98	530851	49.42	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.84%	
62) 4-Bromofluorobenzene	12.40	95	234272	58.92	ug/l	0.00
Spiked Amount	50.000		Recovery	=	117.84%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.83	85	149568	47.826	ug/l	99
3) Chloromethane	2.04	50	235664	49.781	ug/l	100
4) Vinyl Chloride	2.17	62	232349	49.794	ug/l	99
5) Bromomethane	2.54	94	137441	48.358	ug/l	99
6) Chloroethane	2.68	64	136738	49.074	ug/l	96
7) Trichlorofluoromethane	3.00	101	273550	49.041	ug/l	100
8) Diethyl Ether	3.39	74	87335	45.686	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	3.73	101	136405	46.989	ug/l	99
10) Methyl Iodide	3.93	142	187158	47.614	ug/l	99
11) Tert butyl alcohol	4.75	59	165391	263.814	ug/l #	85
12) 1,1-Dichloroethene	3.71	96	131552	46.616	ug/l	96
13) Acrolein	3.58	56	110377	361.798	ug/l	98
14) Allyl chloride	4.30	41	266584	49.106	ug/l	99
15) Acrylonitrile	4.95	53	428850	259.362	ug/l	100
16) Acetone	3.79	43	402754	227.515	ug/l	99
17) Carbon Disulfide	4.03	76	427366	47.734	ug/l	100
18) Methyl Acetate	4.29	43	225095	48.431	ug/l	100
19) Methyl tert-butyl Ether	5.01	73	485144	51.717	ug/l	100
20) Methylene Chloride	4.52	84	158334	49.632	ug/l	99
21) trans-1,2-Dichloroethene	5.01	96	149816	49.462	ug/l	98
22) Diisopropyl ether	5.92	45	535574	51.824	ug/l	98
23) Vinyl Acetate	5.87	43	2346000	272.131	ug/l	100
24) 1,1-Dichloroethane	5.82	63	294526	50.195	ug/l	99
25) 2-Butanone	6.81	43	615045	258.119	ug/l	99
26) 2,2-Dichloropropane	6.80	77	259803	49.011	ug/l	100
27) cis-1,2-Dichloroethene	6.81	96	170895	50.162	ug/l	100
28) Bromochloromethane	7.17	49	118804	52.846	ug/l	100
29) Tetrahydrofuran	7.19	42	415180	250.495	ug/l	100
30) Chloroform	7.35	83	293121	50.617	ug/l	98
31) Cyclohexane	7.63	56	269389	47.177	ug/l	99
32) 1,1,1-Trichloroethane	7.55	97	258752	50.367	ug/l	99
36) 1,1-Dichloropropene	7.77	75	225147	49.772	ug/l	99
37) Ethyl Acetate	6.90	43	256062	48.587	ug/l	100
38) Carbon Tetrachloride	7.75	117	228363	51.216	ug/l	98

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN121019\
 Data File : VN059552.D
 Acq On : 10 Dec 2019 17:00
 Operator : JC/SP
 Sample : VSTDCCC050
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VSTDCCC050EC

Manual Integrations
 APPROVED

apatel
 12/11/2019 2:16:04 PM

Quant Time: Dec 11 06:59:31 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N120919W.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 10 01:09:52 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.07	83	262899	51.811	ug/l	97
40) Benzene	8.02	78	651747	50.435	ug/l	99
41) Methacrylonitrile	7.16	41	110698m	50.356	ug/l	
42) 1,2-Dichloroethane	8.11	62	249231	51.764	ug/l	99
43) Isopropyl Acetate	8.15	43	406463	52.053	ug/l	99
44) Trichloroethene	8.82	130	163016	49.933	ug/l	96
45) 1,2-Dichloropropane	9.10	63	175688	51.321	ug/l	100
46) Dibromomethane	9.20	93	118691	52.463	ug/l	99
47) Bromodichloromethane	9.39	83	235041	52.274	ug/l	99
48) Methyl methacrylate	9.19	41	190608	55.827	ug/l	99
49) 1,4-Dioxane	9.19	88	56420	1291.540	ug/l	96
51) 4-Methyl-2-Pentanone	9.98	43	1277696	257.549	ug/l	100
52) Toluene	10.15	92	405199	52.626	ug/l	99
53) t-1,3-Dichloropropene	10.37	75	271569	51.838	ug/l	98
54) cis-1,3-Dichloropropene	9.83	75	285553	53.258	ug/l	99
55) 1,1,2-Trichloroethane	10.56	97	161746	51.941	ug/l	97
56) Ethyl methacrylate	10.42	69	249857	46.723	ug/l	100
57) 1,3-Dichloropropane	10.70	76	278074	52.285	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.69	63	400040	313.584	ug/l	100
59) 2-Hexanone	10.75	43	963867	254.307	ug/l	100
60) Dibromochloromethane	10.90	129	175540	47.290	ug/l	100
61) 1,2-Dibromoethane	11.00	107	167359	51.625	ug/l	100
64) Tetrachloroethene	10.62	164	141352	47.399	ug/l	99
65) Chlorobenzene	11.43	112	425789	49.802	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.51	131	160763	50.416	ug/l	99
67) Ethyl Benzene	11.51	91	783566	50.930	ug/l	100
68) m/p-Xylenes	11.62	106	581683	100.787	ug/l	97
69) o-Xylene	11.95	106	275946	51.369	ug/l	95
70) Styrene	11.96	104	457358	51.391	ug/l	98
71) Bromoform	12.13	173	140798	56.117	ug/l #	99
73) Isopropylbenzene	12.25	105	826669	50.618	ug/l	100
74) N-amyl acetate	12.07	43	386499	54.330	ug/l	96
75) 1,1,2,2-Tetrachloroethane	12.51	83	272967	49.326	ug/l	99
76) 1,2,3-Trichloropropane	12.55	75	296197m	53.199	ug/l	
77) Bromobenzene	12.53	156	215382	52.973	ug/l	97
78) n-propylbenzene	12.59	91	1073983	53.515	ug/l	99
79) 2-Chlorotoluene	12.67	91	622854	52.048	ug/l	98
80) 1,3,5-Trimethylbenzene	12.73	105	764225	54.569	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.30	75	111855	54.052	ug/l	96
82) 4-Chlorotoluene	12.77	91	651318	53.228	ug/l	99
83) tert-Butylbenzene	12.99	119	644667	55.201	ug/l	98
84) 1,2,4-Trimethylbenzene	13.04	105	758139	54.824	ug/l	99
85) sec-Butylbenzene	13.17	105	761156	47.450	ug/l	100
86) p-Isopropyltoluene	13.29	119	706710	49.293	ug/l	100
87) 1,3-Dichlorobenzene	13.28	146	351332	46.914	ug/l	100
88) 1,4-Dichlorobenzene	13.36	146	351717	47.965	ug/l	100
89) n-Butylbenzene	13.62	91	648212	48.151	ug/l	100
90) Hexachloroethane	13.88	117	128986	48.988	ug/l	93
91) 1,2-Dichlorobenzene	13.65	146	348805	49.632	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.27	75	56214	44.536	ug/l	95

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN121019\
Data File : VN059552.D
Acq On : 10 Dec 2019 17:00
Operator : JC/SP
Sample : VSTDCCC050
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

apatel
12/11/2019 2:16:04 PM

Quant Time: Dec 11 06:59:31 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N120919W.M
Quant Title : SW846 8260
QLast Update : Tue Dec 10 01:09:52 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	257447	52.964	ug/l	99
94) Hexachlorobutadiene	15.01	225	138830	55.906	ug/l	99
95) Naphthalene	15.13	128	728063	51.240	ug/l	100
96) 1,2,3-Trichlorobenzene	15.29	180	242225	51.105	ug/l	100

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

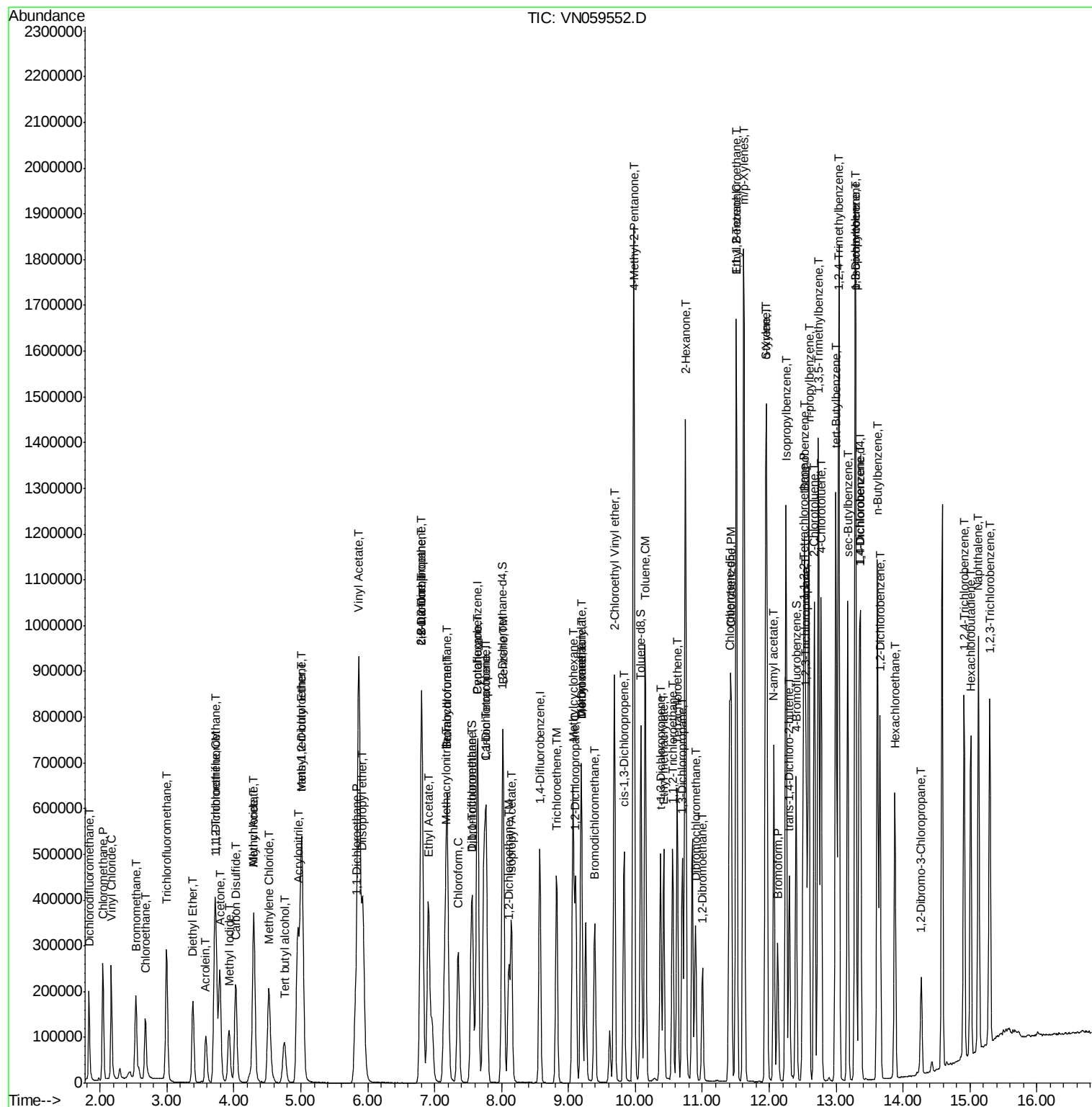
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN121019\
 Data File : VN059552.D
 Acq On : 10 Dec 2019 17:00
 Operator : JC/SP
 Sample : VSTDCCC050
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 17 Sample Multiplier: 1

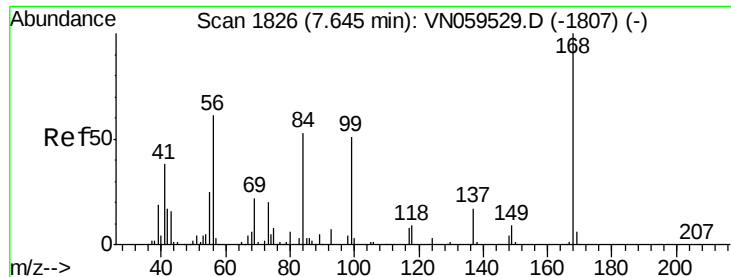
Instrument :
 MSVOA_N
 Client Sample ID :
 VSTDCCC050EC

Manual Integrations
 APPROVED

apatel
 12/11/2019 2:16:04 PM

Quant Time: Dec 11 06:59:31 2019
 Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N120919W.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 10 01:09:52 2019
 Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. 0.00 min

Lab File: VN059552.D

Acq: 10 Dec 2019 17:00

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion:168 Resp: 271139

Ion Ratio Lower Upper

168 100

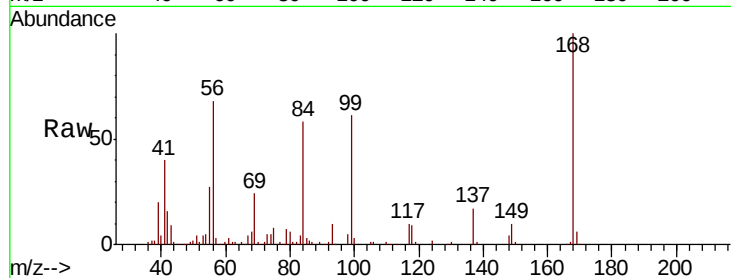
99 60.7 46.6 70.0

Manual Integrations

APPROVED

apatel

12/11/2019 2:16:04 PM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.65

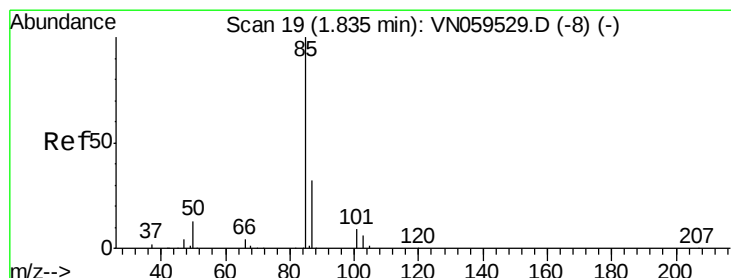
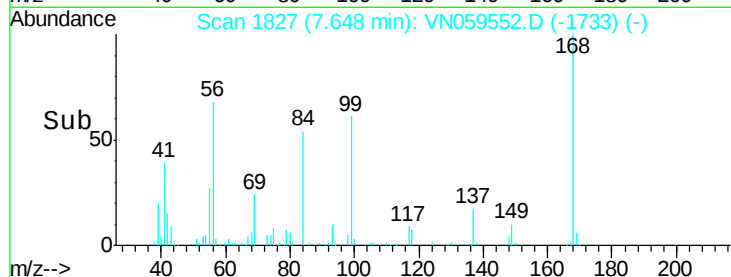
100000

50000

0

7.60 7.70 7.80

Time-->



#2

Dichlorodifluoromethane

Concen: 47.826 ug/l

RT: 1.83 min Scan# 19

Delta R.T. -0.00 min

Lab File: VN059552.D

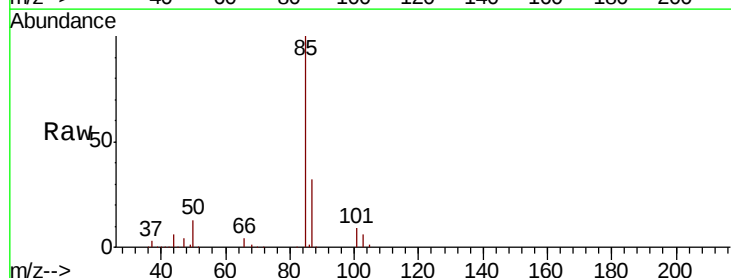
Acq: 10 Dec 2019 17:00

Tgt Ion: 85 Resp: 149568

Ion Ratio Lower Upper

85 100

87 32.3 16.0 48.0



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

1.83

120000

100000

80000

60000

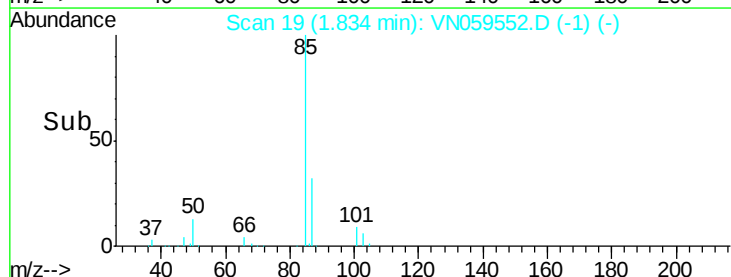
40000

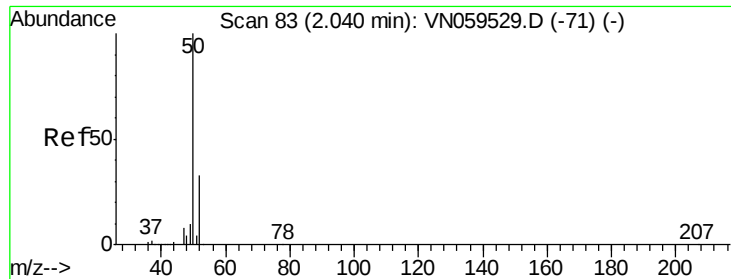
20000

0

1.75 1.80 1.85 1.90 1.95

Time-->





#3

Chloromethane

Concen: 49.781 ug/l

RT: 2.04 min Scan# 84

Delta R.T. 0.00 min

Lab File: VN059552.D

Acq: 10 Dec 2019 17:00

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 50 Resp: 235664

Ion Ratio Lower Upper

50 100

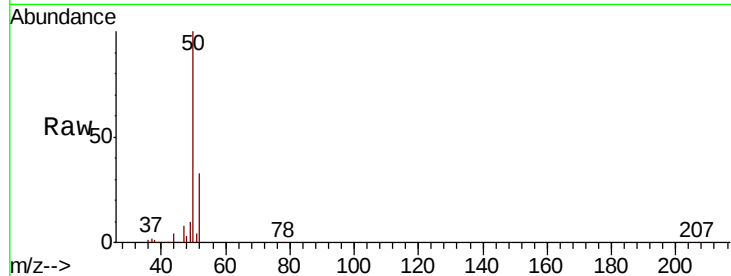
52 32.8 26.2 39.4

Manual Integrations

APPROVED

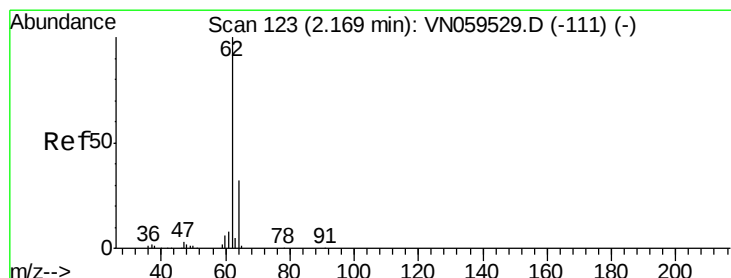
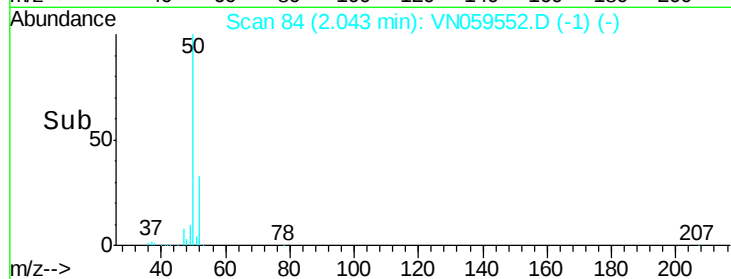
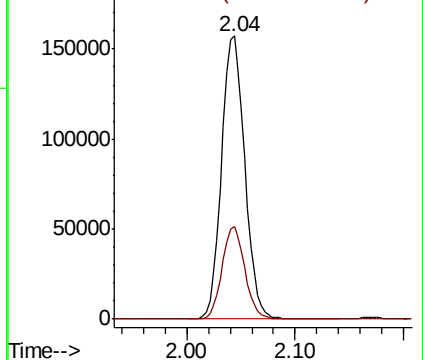
apatel

12/11/2019 2:16:04 PM



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO



#4

Vinyl Chloride

Concen: 49.794 ug/l

RT: 2.17 min Scan# 123

Delta R.T. -0.00 min

Lab File: VN059552.D

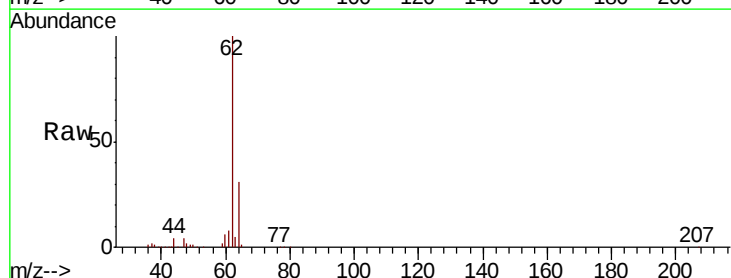
Acq: 10 Dec 2019 17:00

Tgt Ion: 62 Resp: 232349

Ion Ratio Lower Upper

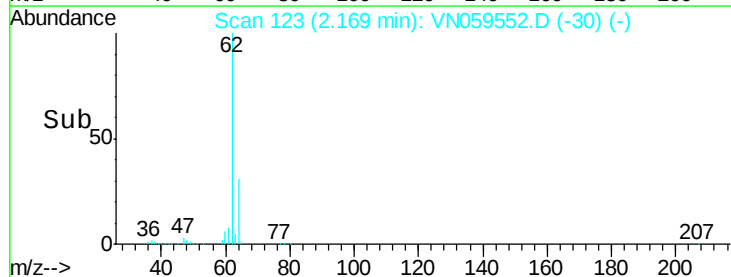
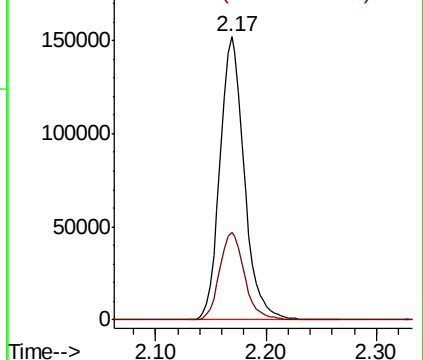
62 100

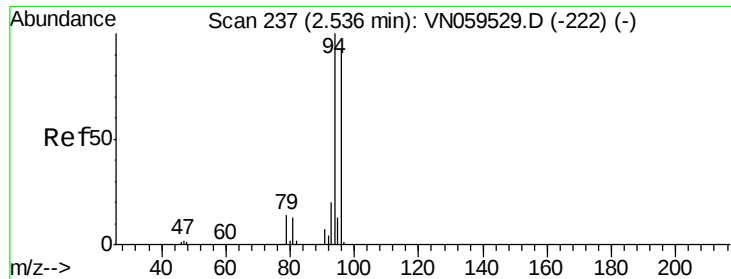
64 31.1 25.4 38.0



Abundance Ion 61.90 (61.60 to 62.60): VNO

Ion 63.90 (63.60 to 64.60): VNO





#5

Bromomethane

Concen: 48.358 ug/l

RT: 2.54 min Scan# 237

Delta R.T. -0.00 min

Lab File: VN059552.D

Acq: 10 Dec 2019 17:00

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 94 Resp: 137441

Ion Ratio Lower Upper

94 100

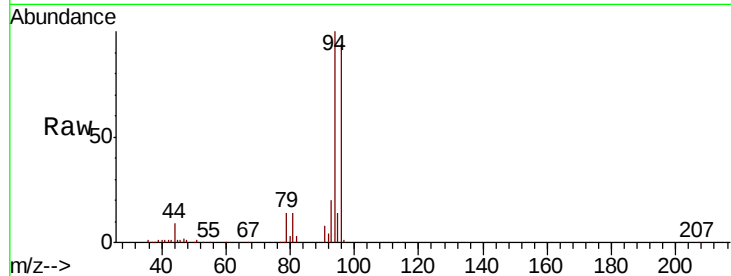
96 94.1 74.6 112.0

Manual Integrations

APPROVED

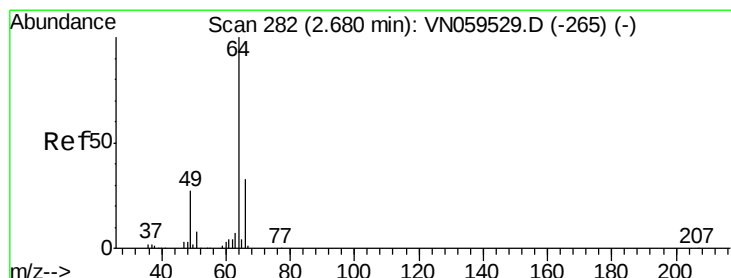
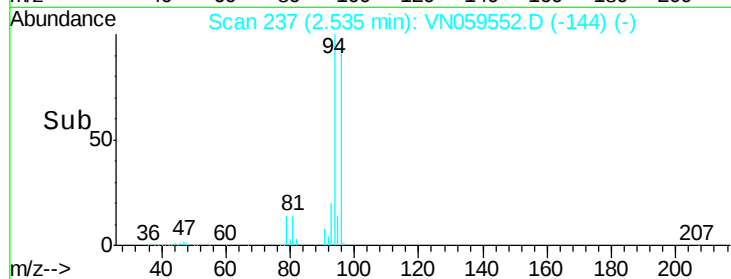
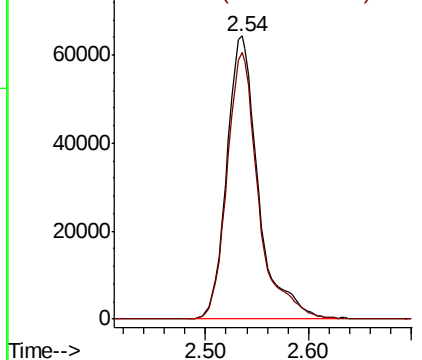
apatel

12/11/2019 2:16:04 PM



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO



#6

Chloroethane

Concen: 49.074 ug/l

RT: 2.68 min Scan# 281

Delta R.T. -0.00 min

Lab File: VN059552.D

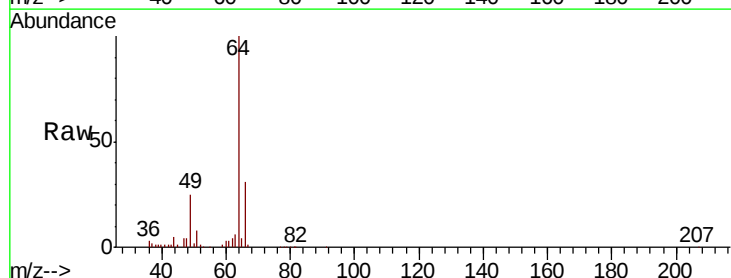
Acq: 10 Dec 2019 17:00

Tgt Ion: 64 Resp: 136738

Ion Ratio Lower Upper

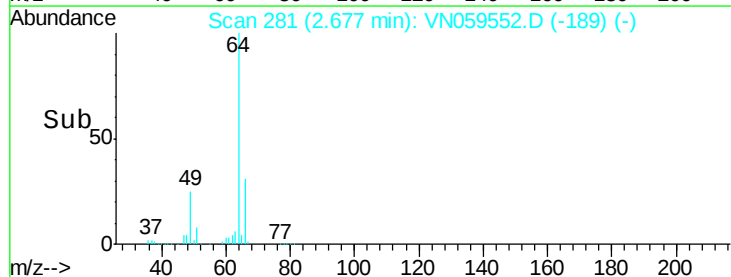
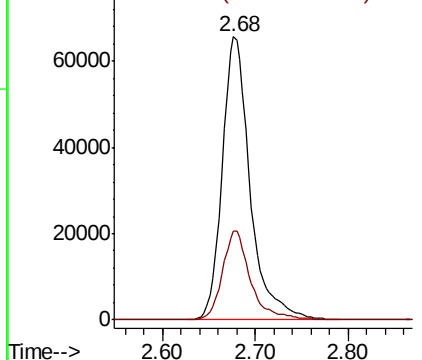
64 100

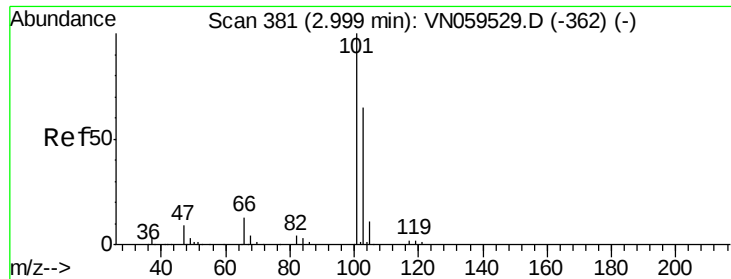
66 31.3 26.7 40.1



Abundance Ion 63.90 (63.60 to 64.60): VNO

Ion 65.90 (65.60 to 66.60): VNO





#7

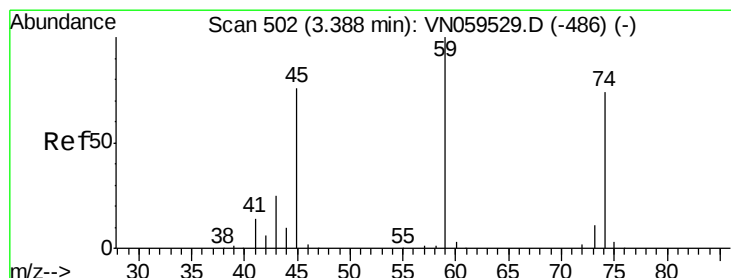
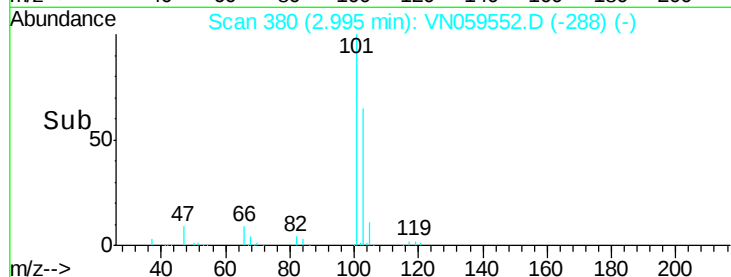
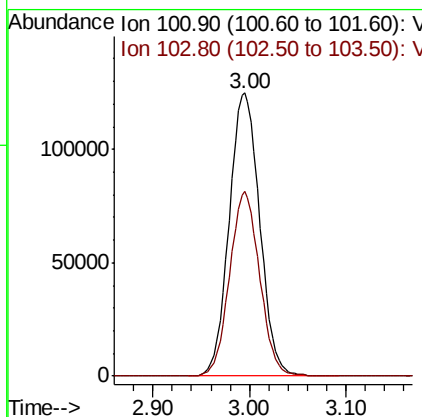
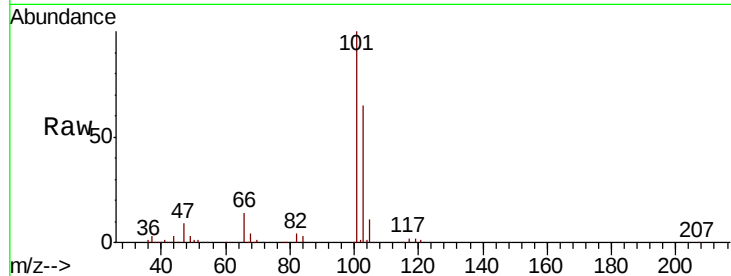
Trichlorofluoromethane
Concen: 49.041 ug/l
RT: 3.00 min Scan# 380
Delta R.T. -0.00 min
Lab File: VN059552.D
Acq: 10 Dec 2019 17:00

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
101	100		
103	65.4	52.2	78.4

Manual Integrations
APPROVED

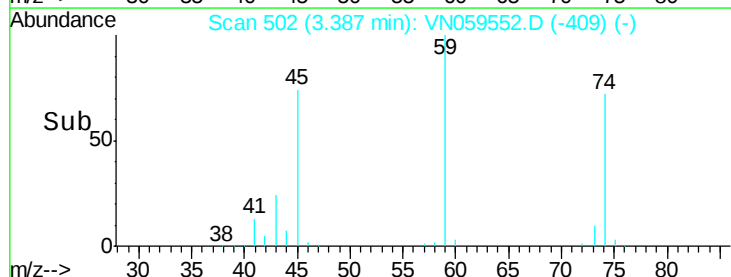
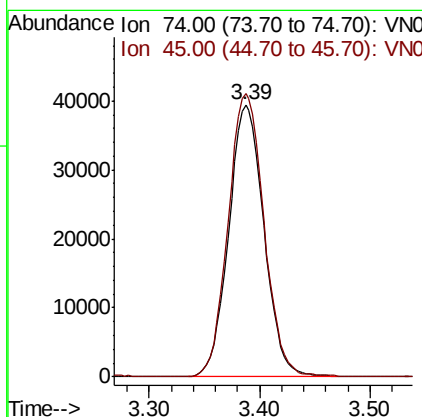
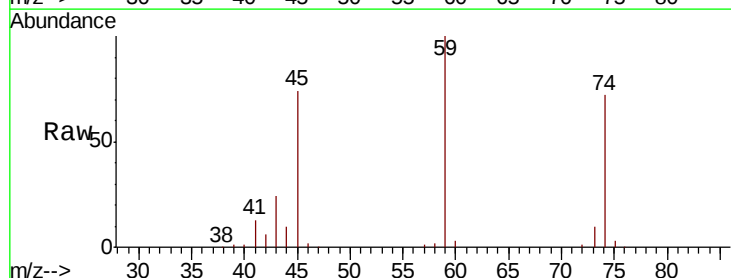
apatel
12/11/2019 2:16:04 PM

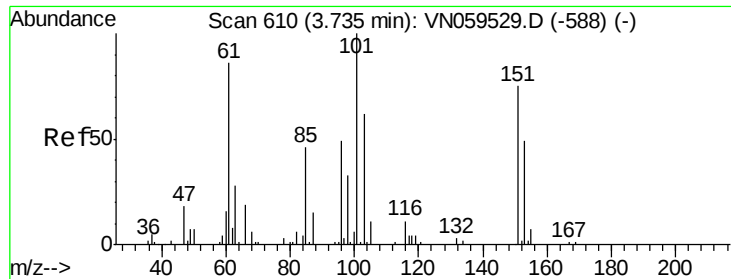


#8

Diethyl Ether
Concen: 45.686 ug/l
RT: 3.39 min Scan# 502
Delta R.T. -0.00 min
Lab File: VN059552.D
Acq: 10 Dec 2019 17:00

Tgt Ion	Ratio	Lower	Upper
74	100		
45	105.9	52.6	157.9





#9

1,1,2-Trichlorotrifluoroethane

Concen: 46.989 ug/l

RT: 3.73 min Scan# 610

Delta R.T. 0.00 min

Lab File: VN059552.D

Acq: 10 Dec 2019 17:00

Instrument :

MSVOA_N

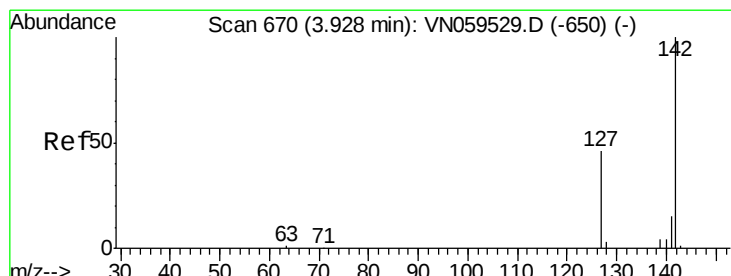
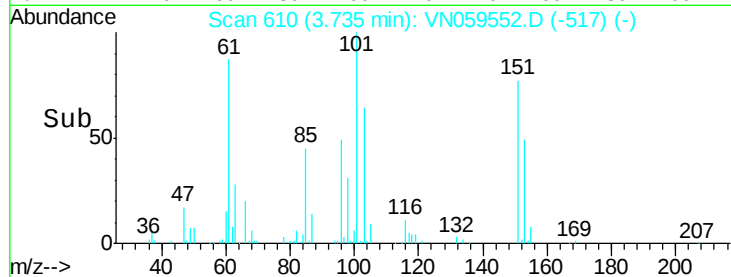
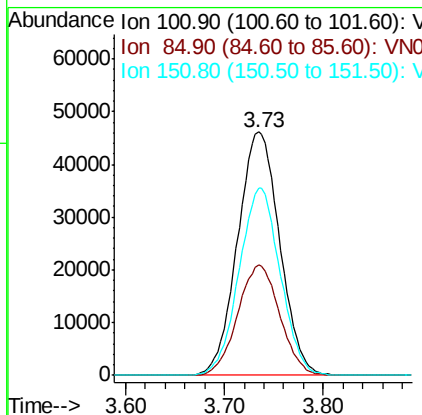
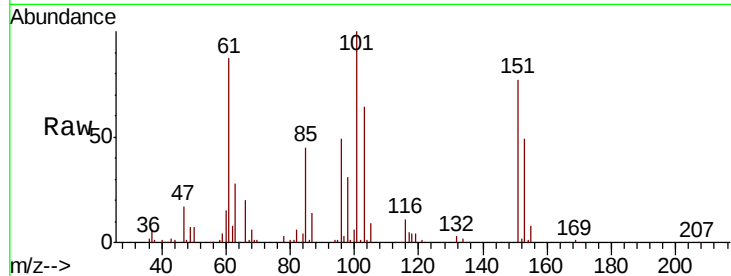
ClientSampleId :

VSTDCCC050EC

Tot Ion:	101	Resp:	136405
Ion Ratio	Lower	Upper	
101	100		
85	45.2	36.6	54.8
151	75.3	59.3	88.9

Manual Integrations
APPROVED

apatel
12/11/2019 2:16:04 PM



#10

Methyl Iodide

Concen: 47.614 ug/l

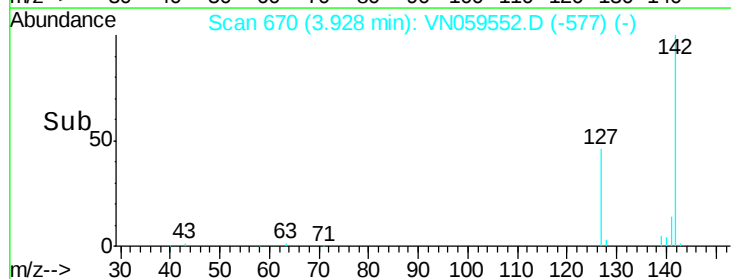
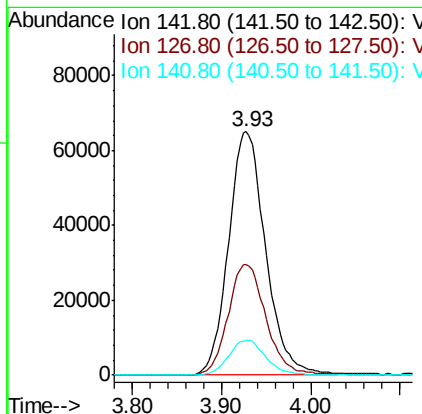
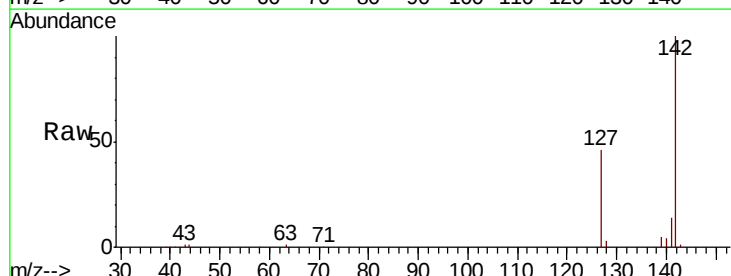
RT: 3.93 min Scan# 670

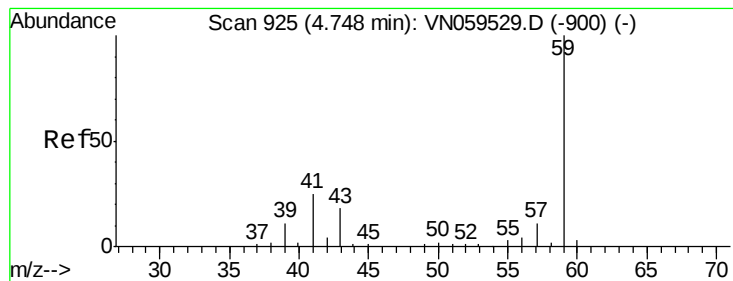
Delta R.T. -0.00 min

Lab File: VN059552.D

Acq: 10 Dec 2019 17:00

Tgt Ion:	142	Resp:	187158
Ion Ratio	Lower	Upper	
142	100		
127	46.4	36.6	54.8
141	14.4	11.6	17.4





#11

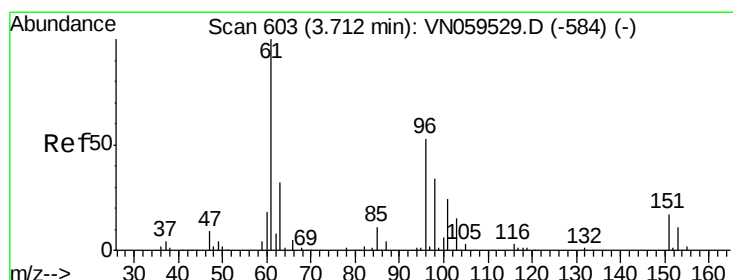
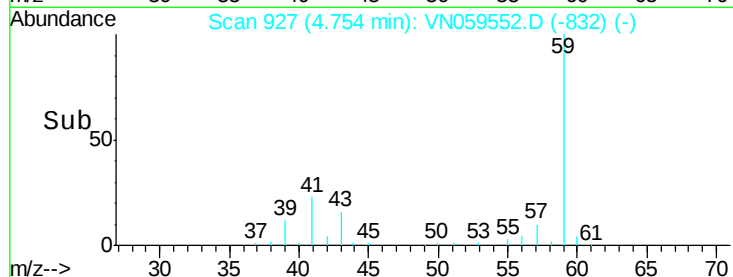
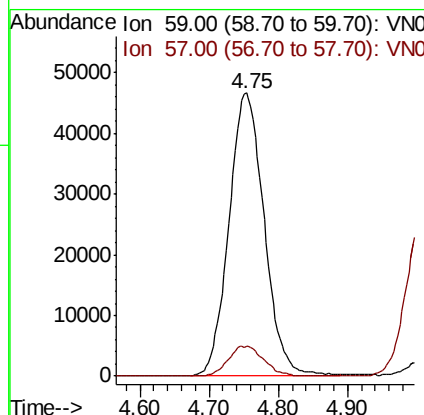
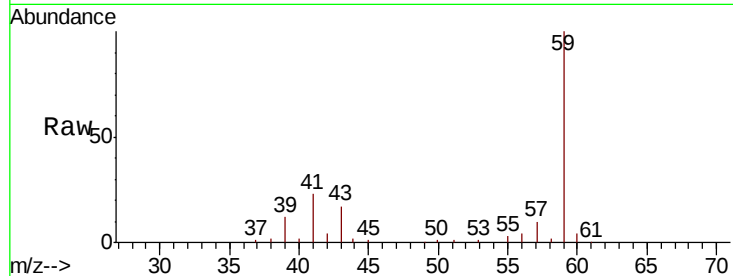
Tert butyl alcohol
Concen: 263.814 ug/l
RT: 4.75 min Scan# 927
Delta R.T. 0.01 min
Lab File: VN059552.D
Acq: 10 Dec 2019 17:00

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	59	Ratio	59	Resp	Lower	Upper
59	100			165391		
57	5.0			8.6		13.0#

Manual Integrations
APPROVED

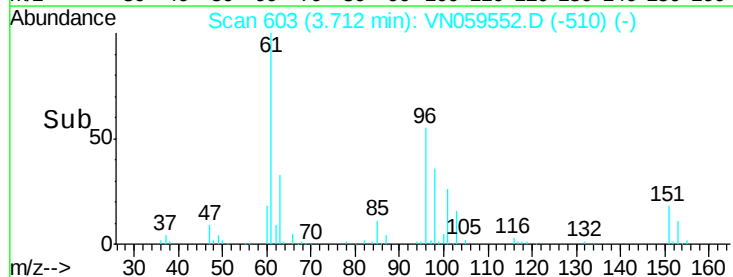
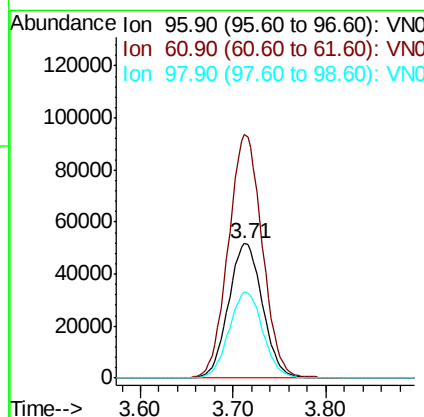
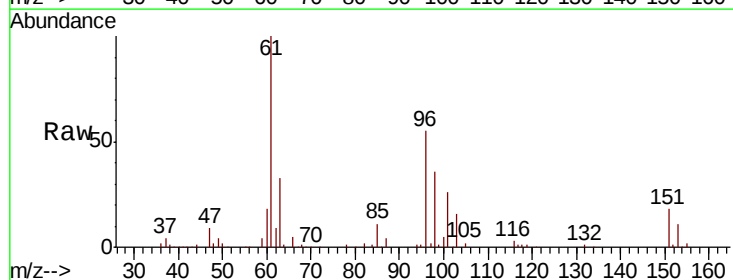
apatel
12/11/2019 2:16:04 PM

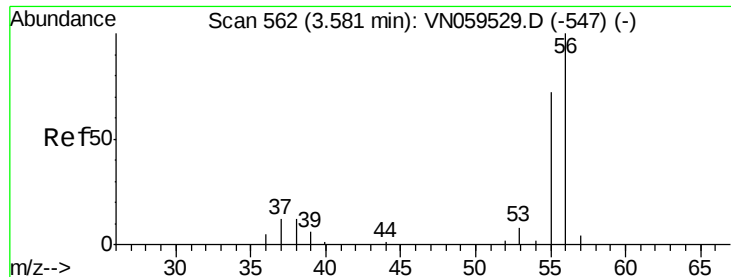


#12

1,1-Dichloroethene
Concen: 46.616 ug/l
RT: 3.71 min Scan# 603
Delta R.T. 0.00 min
Lab File: VN059552.D
Acq: 10 Dec 2019 17:00

Tgt Ion	96	Ratio	Lower	Upper
96	100			
61	180.7		149.8	224.6
98	64.3		50.6	75.8





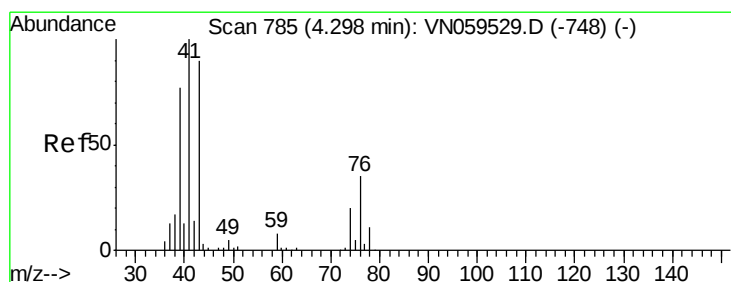
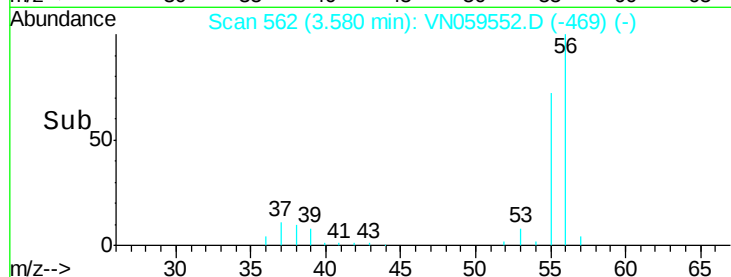
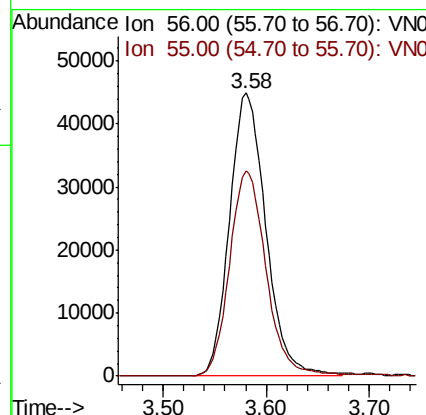
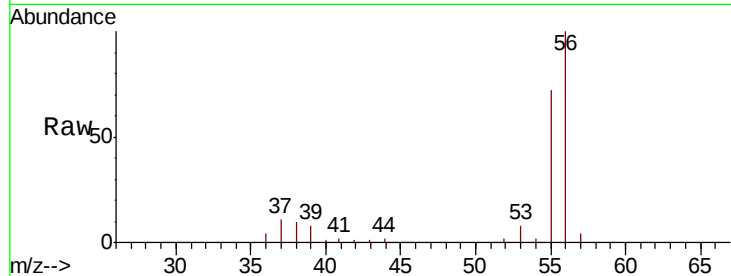
#13
Acrolein
Concen: 361.798 ug/l
RT: 3.58 min Scan# 562
Delta R.T. 0.00 min
Lab File: VN059552.D
Acq: 10 Dec 2019 17:00

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	56	Resp	110377
Ion Ratio	100	Lower	Upper
56	100		
55	73.0	56.9	85.3

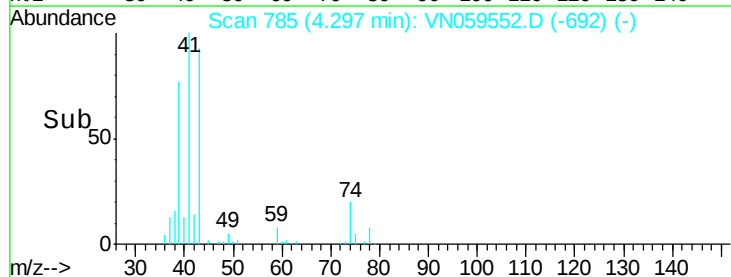
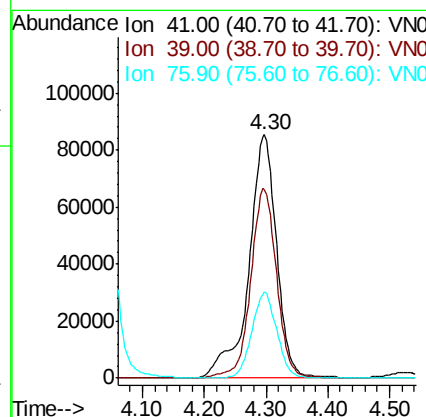
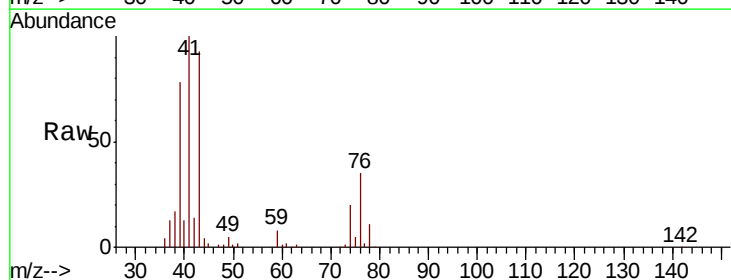
Manual Integrations
APPROVED

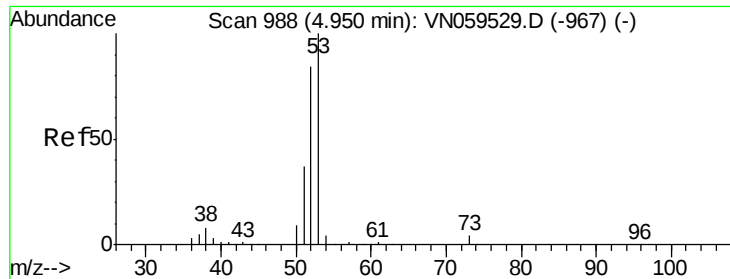
apatel
12/11/2019 2:16:04 PM



#14
Allyl chloride
Concen: 49.106 ug/l
RT: 4.30 min Scan# 785
Delta R.T. -0.00 min
Lab File: VN059552.D
Acq: 10 Dec 2019 17:00

Tgt Ion	41	Resp	266584
Ion Ratio	100	Lower	Upper
41	100		
39	72.4	56.7	85.1
76	31.6	25.5	38.3





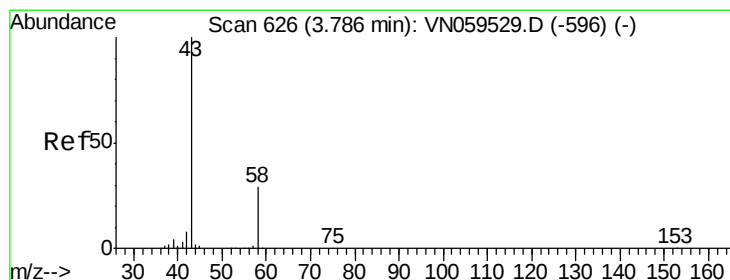
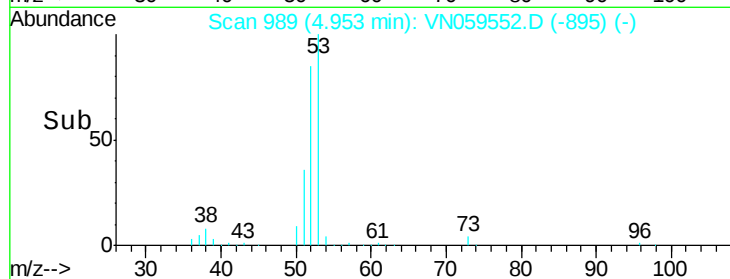
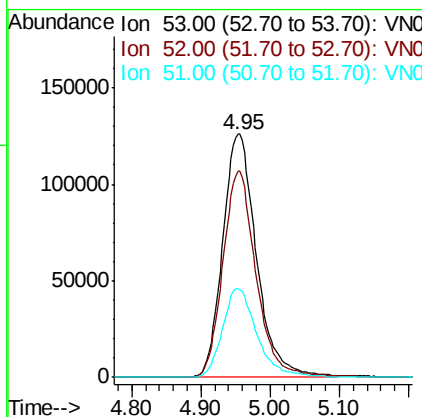
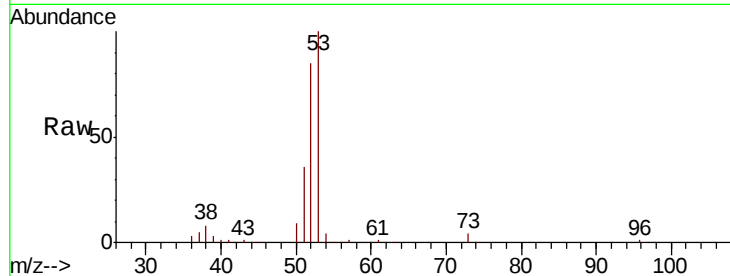
#15
 Acrylonitrile
 Concen: 259.362 ug/l
 RT: 4.95 min Scan# 989
 Delta R.T. 0.00 min
 Lab File: VN059552.D
 Acq: 10 Dec 2019 17:00

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
53	100		
52	83.7	66.6	99.8
51	37.4	29.8	44.8

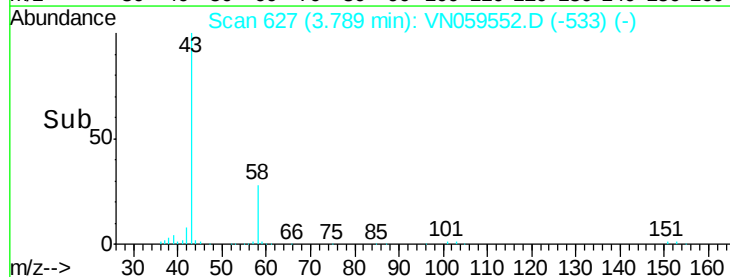
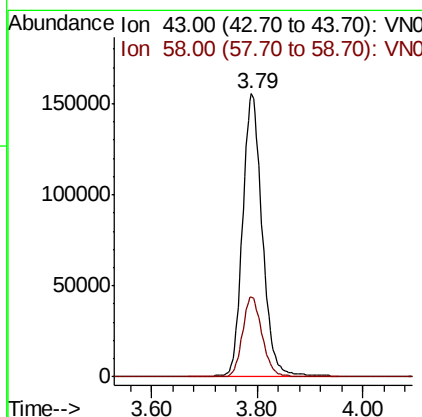
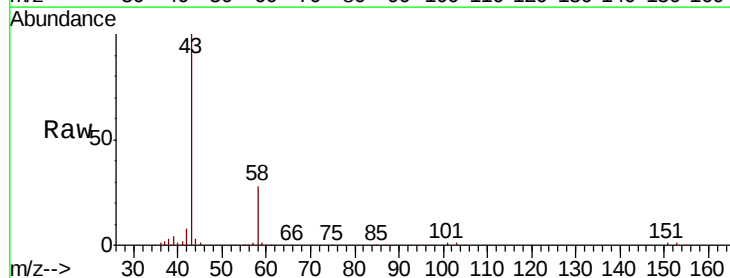
Manual Integrations
 APPROVED

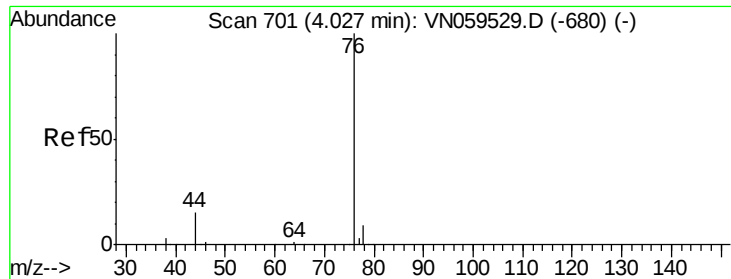
apatel
 12/11/2019 2:16:04 PM



#16
 Acetone
 Concen: 227.515 ug/l
 RT: 3.79 min Scan# 627
 Delta R.T. 0.00 min
 Lab File: VN059552.D
 Acq: 10 Dec 2019 17:00

Tgt Ion	Ratio	Lower	Upper
43	100		
58	28.4	23.0	34.4





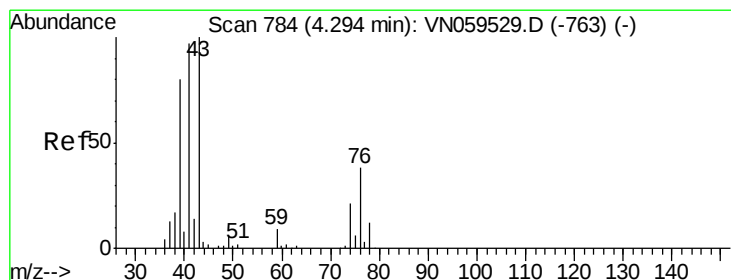
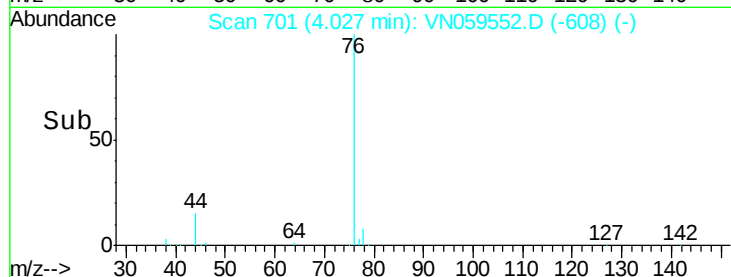
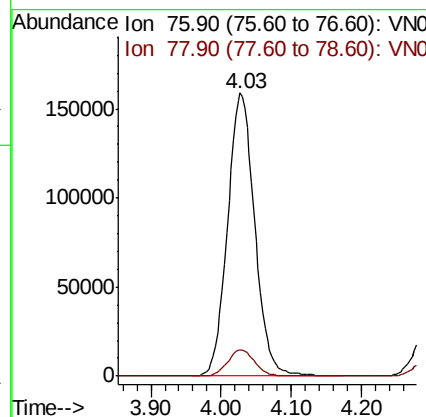
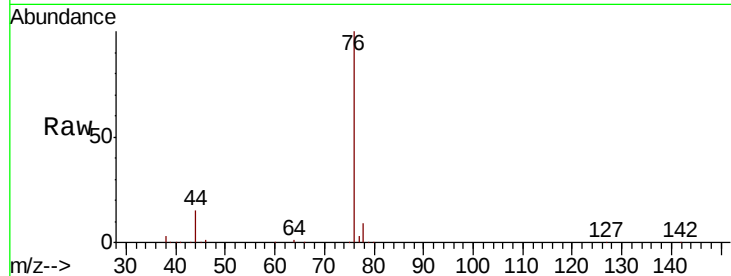
#17
Carbon Disulfide
Concen: 47.734 ug/l
RT: 4.03 min Scan# 701
Delta R.T. 0.00 min
Lab File: VN059552.D
Acq: 10 Dec 2019 17:00

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
76	100		
78	9.2	7.4	11.2

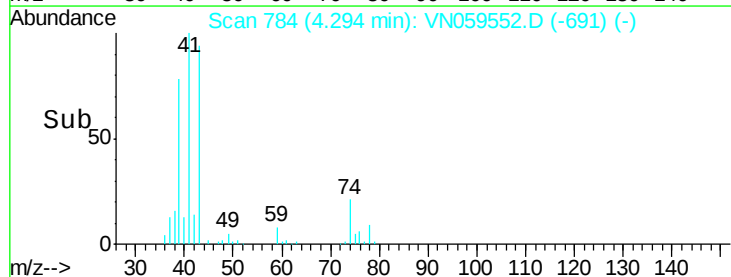
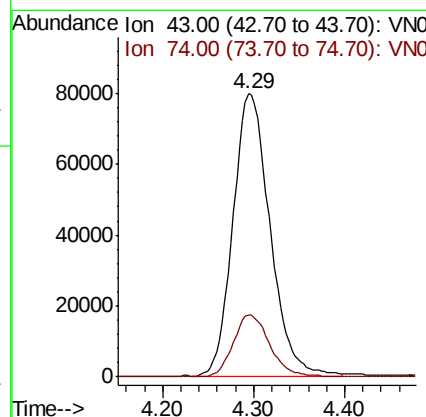
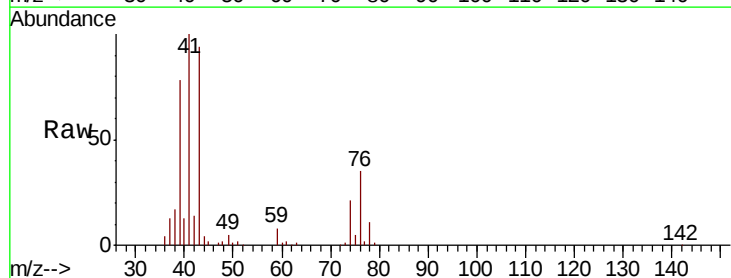
Manual Integrations
APPROVED

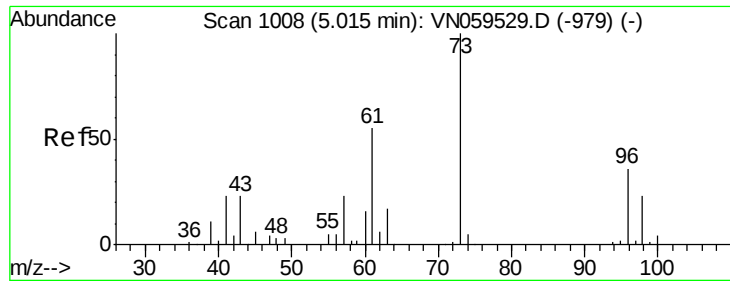
apatel
12/11/2019 2:16:04 PM



#18
Methyl Acetate
Concen: 48.431 ug/l
RT: 4.29 min Scan# 784
Delta R.T. -0.00 min
Lab File: VN059552.D
Acq: 10 Dec 2019 17:00

Tgt Ion	Ratio	Lower	Upper
43	100		
74	21.9	17.5	26.3





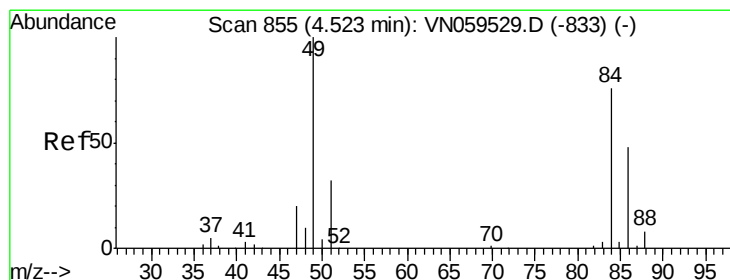
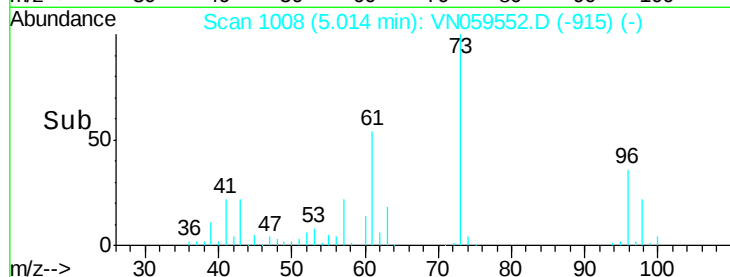
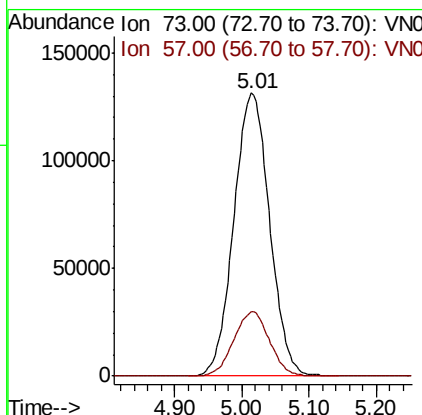
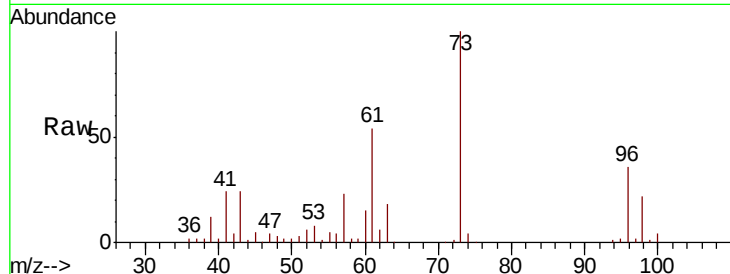
#19
Methvl tert-butvl Ether
Concen: 51.717 ug/l
RT: 5.01 min Scan# 1008
Delta R.T. -0.00 min
Lab File: VN059552.D
Acq: 10 Dec 2019 17:00

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion: 73 Resp: 485144
Ion Ratio Lower Upper
73 100
57 22.7 18.3 27.5

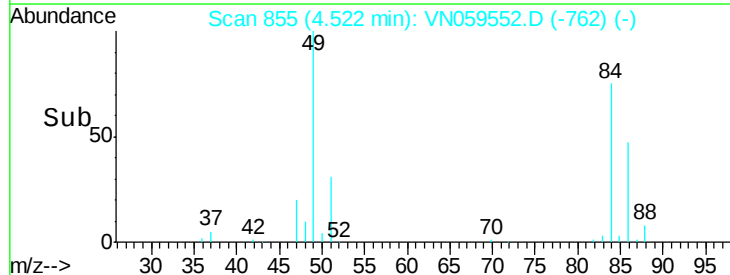
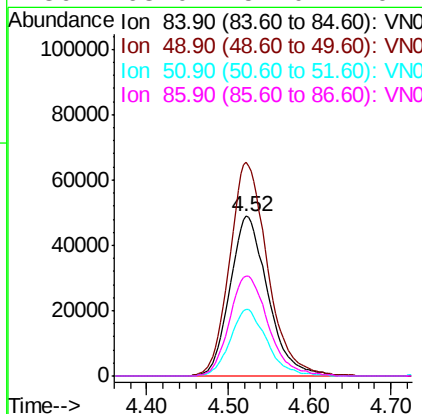
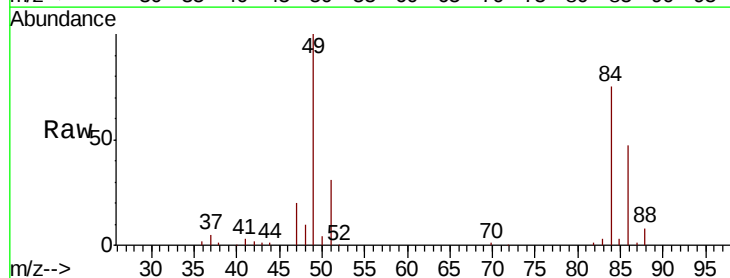
Manual Integrations
APPROVED

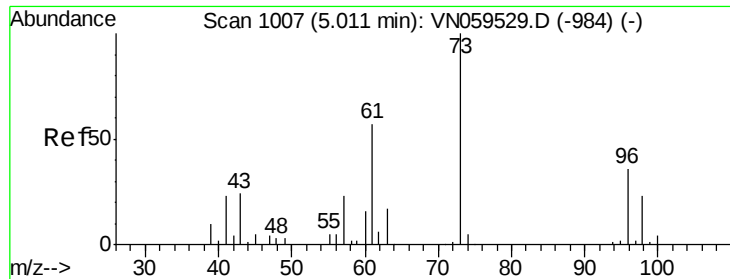
apatel
12/11/2019 2:16:04 PM



#20
Methylene Chloride
Concen: 49.632 ug/l
RT: 4.52 min Scan# 855
Delta R.T. 0.00 min
Lab File: VN059552.D
Acq: 10 Dec 2019 17:00

Tgt Ion: 84 Resp: 158334
Ion Ratio Lower Upper
84 100
49 133.9 105.8 158.8
51 41.7 33.7 50.5
86 63.0 51.0 76.4





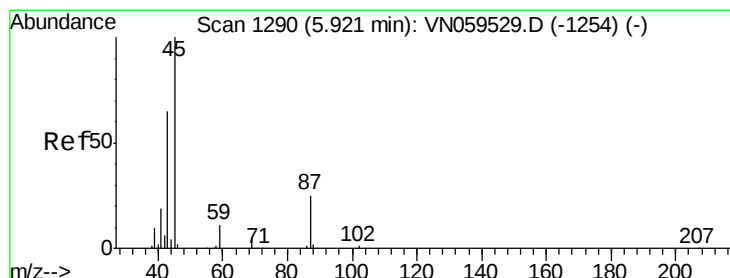
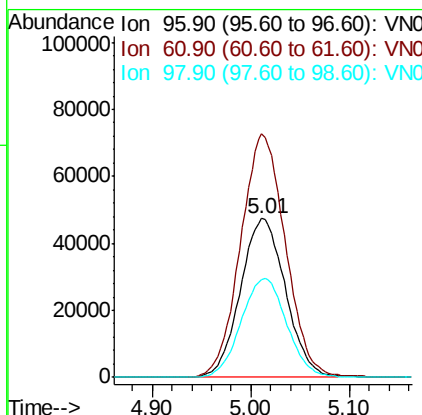
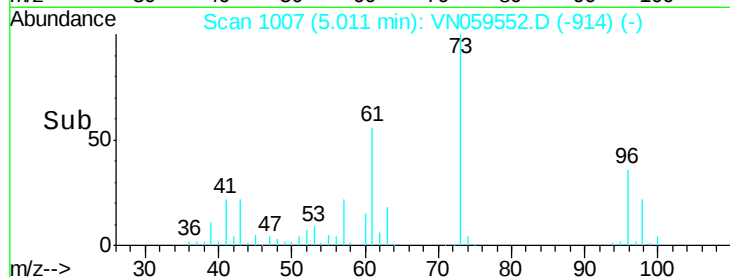
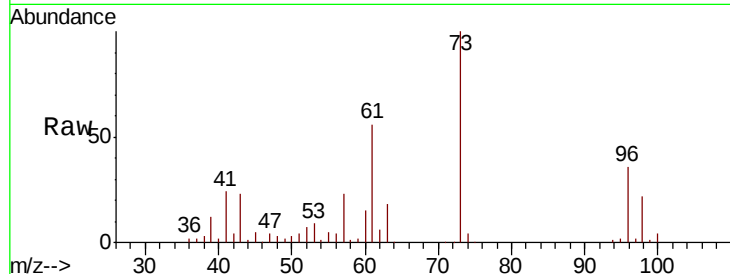
#21
trans-1,2-Dichloroethene
Concen: 49.462 ug/l
RT: 5.01 min Scan# 1007
Delta R.T. -0.00 min
Lab File: VN059552.D
Acq: 10 Dec 2019 17:00

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
96	100		
61	153.3	124.8	187.2
98	61.5	51.0	76.4

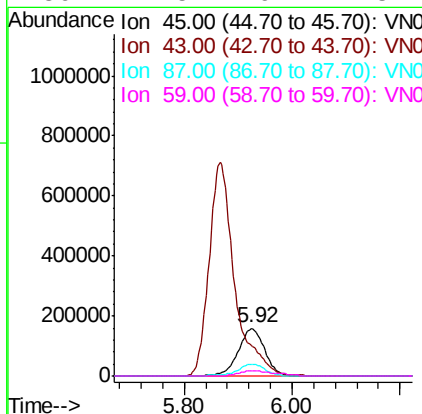
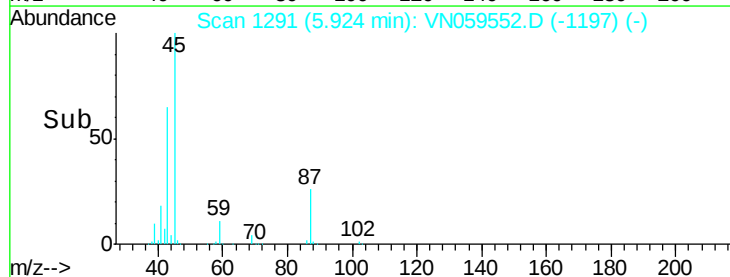
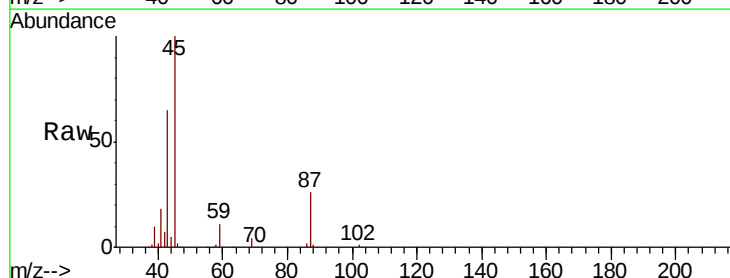
Manual Integrations
APPROVED

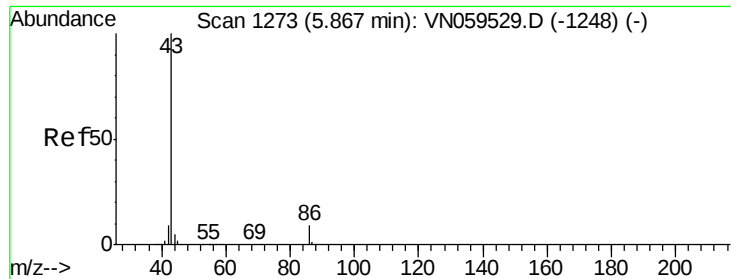
apatel
12/11/2019 2:16:04 PM



#22
Diisopropyl ether
Concen: 51.824 ug/l
RT: 5.92 min Scan# 1291
Delta R.T. 0.00 min
Lab File: VN059552.D
Acq: 10 Dec 2019 17:00

Tgt Ion	Ratio	Lower	Upper
45	100		
43	63.9	52.8	79.2
87	25.7	20.2	30.4
59	11.5	9.1	13.7





#23

Vinyl Acetate

Concen: 272.131 ug/l

RT: 5.87 min Scan# 1273

Delta R.T. -0.00 min

Lab File: VN059552.D

Acq: 10 Dec 2019 17:00

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 43 Resp: 2346000

Ion Ratio Lower Upper

43 100

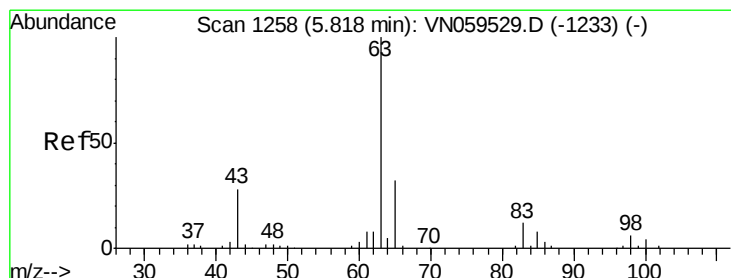
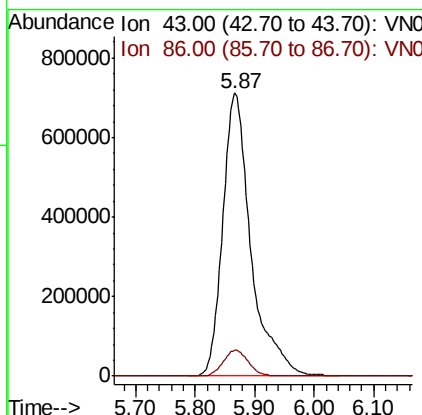
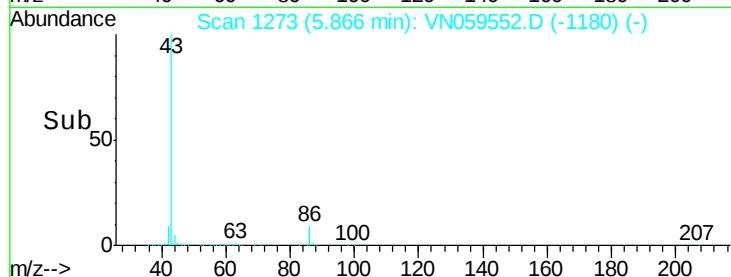
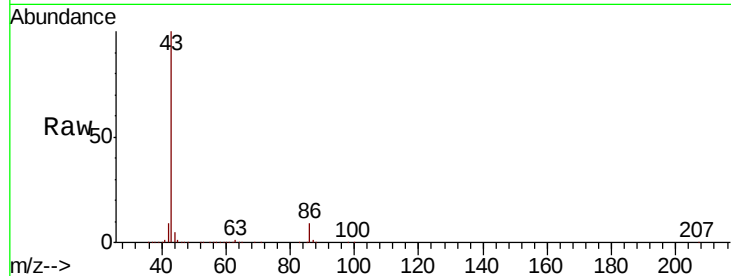
86 9.1 7.4 11.2

Manual Integrations

APPROVED

apatel

12/11/2019 2:16:04 PM



#24

1,1-Dichloroethane

Concen: 50.195 ug/l

RT: 5.82 min Scan# 1259

Delta R.T. 0.00 min

Lab File: VN059552.D

Acq: 10 Dec 2019 17:00

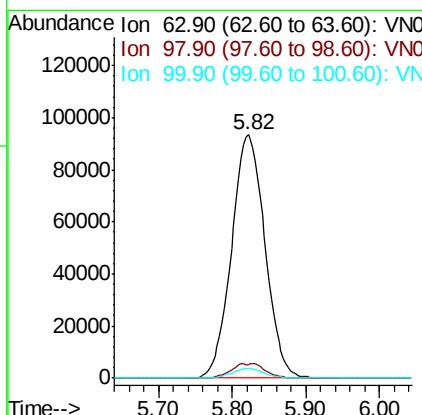
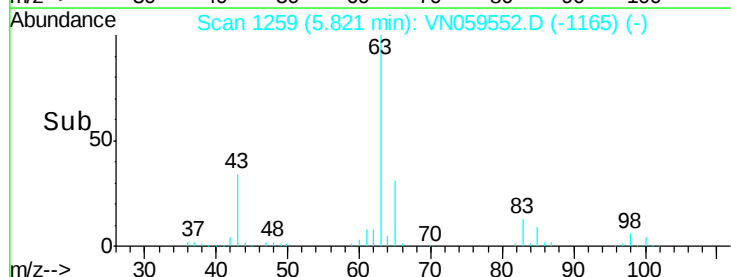
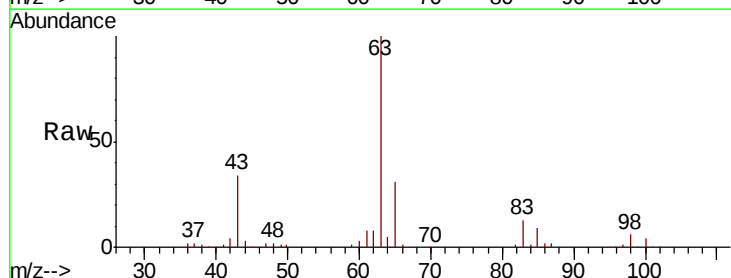
Tgt Ion: 63 Resp: 294526

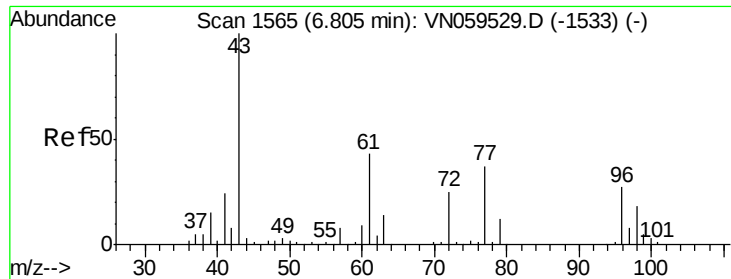
Ion Ratio Lower Upper

63 100

98 5.5 3.0 9.0

100 4.0 1.8 5.3





#25

2-Butanone

Concen: 258.119 ug/l

RT: 6.81 min Scan# 1566

Delta R.T. 0.00 min

Lab File: VN059552.D

Acq: 10 Dec 2019 17:00

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 43 Resp: 615045

Ion Ratio Lower Upper

43 100

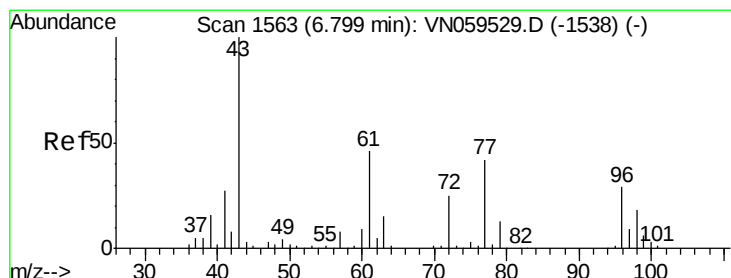
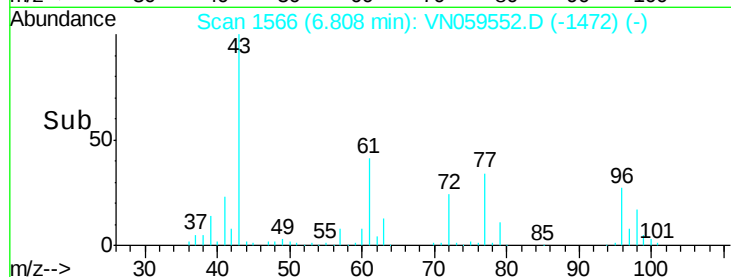
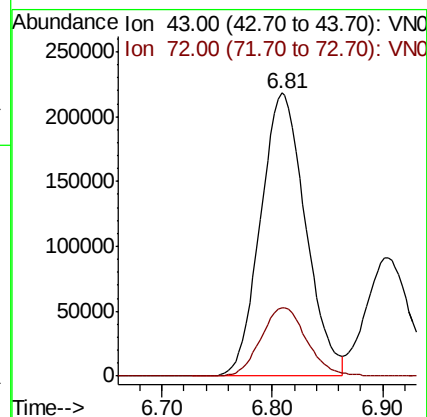
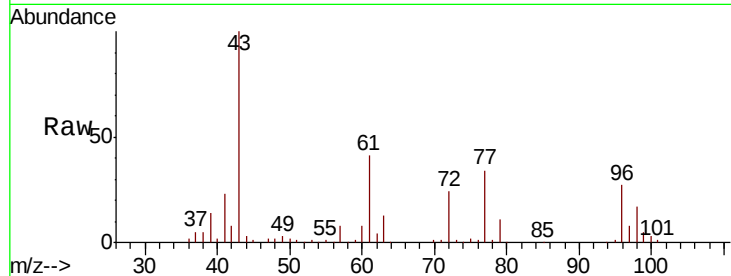
72 24.3 19.9 29.9

Manual Integrations

APPROVED

apatel

12/11/2019 2:16:04 PM



#26

2,2-Dichloropropane

Concen: 49.011 ug/l

RT: 6.80 min Scan# 1563

Delta R.T. -0.00 min

Lab File: VN059552.D

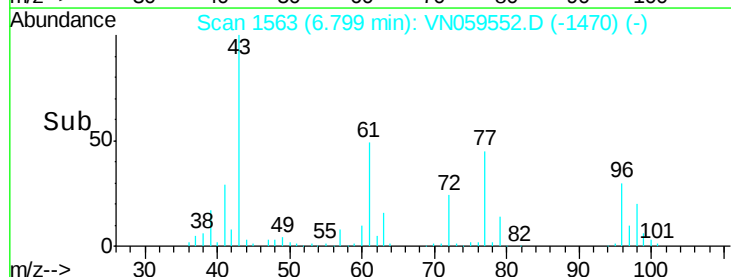
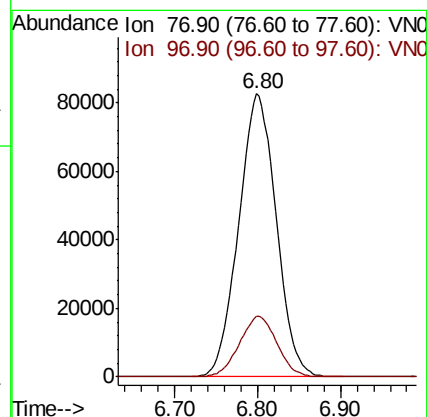
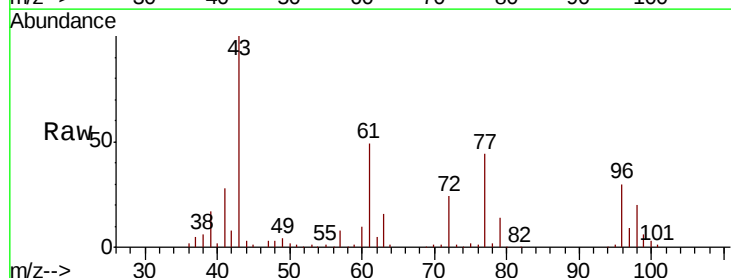
Acq: 10 Dec 2019 17:00

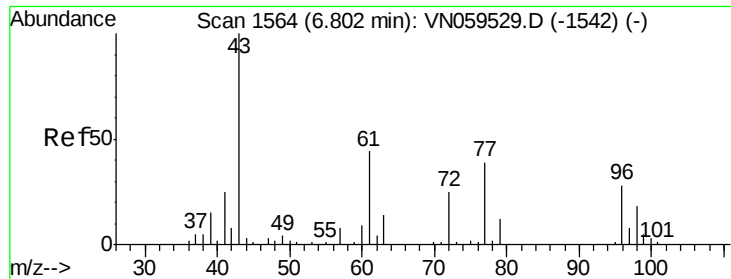
Tgt Ion: 77 Resp: 259803

Ion Ratio Lower Upper

77 100

97 21.3 10.5 31.6





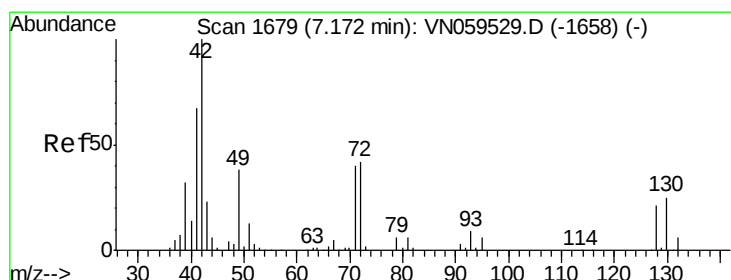
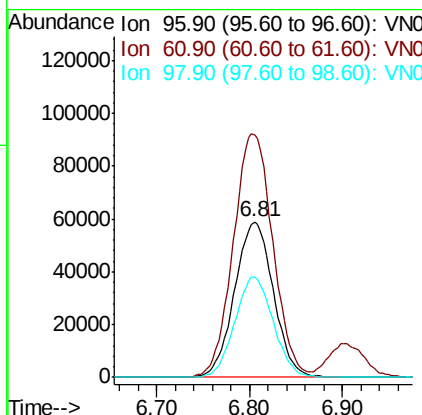
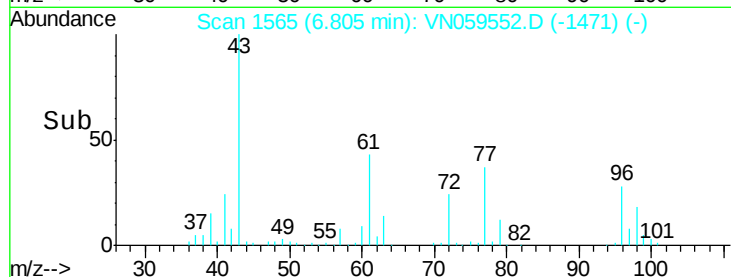
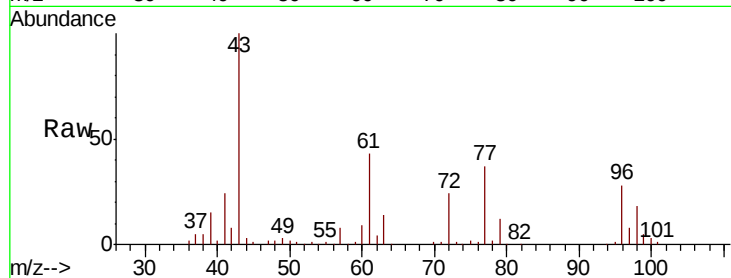
#27
 cis-1,2-Dichloroethene
 Concen: 50.162 ug/l
 RT: 6.81 min Scan# 1565
 Delta R.T. 0.00 min
 Lab File: VN059552.D
 Acq: 10 Dec 2019 17:00

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Resp	Lower	Upper
96	100	170895		
61	160.0		0.0	320.0
98	63.9		0.0	128.6

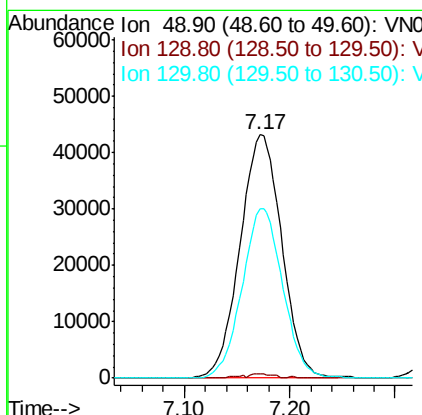
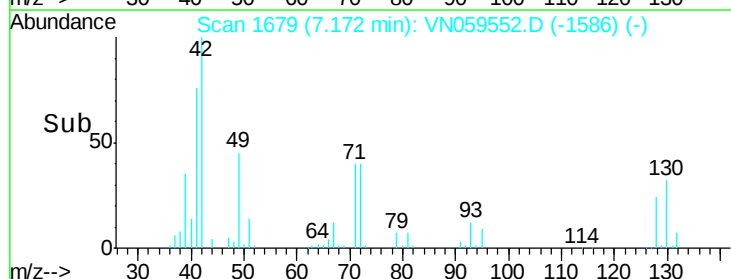
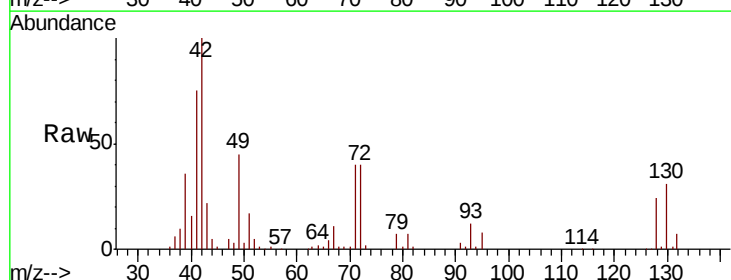
Manual Integrations
 APPROVED

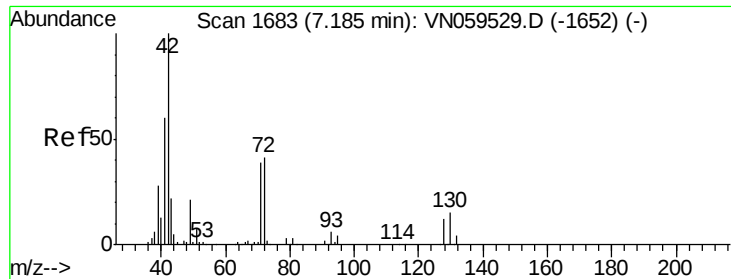
apatel
 12/11/2019 2:16:04 PM



#28
 Bromochloromethane
 Concen: 52.846 ug/l
 RT: 7.17 min Scan# 1679
 Delta R.T. -0.00 min
 Lab File: VN059552.D
 Acq: 10 Dec 2019 17:00

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	118804		
129	0.9		0.0	3.0
130	67.9		54.2	81.2





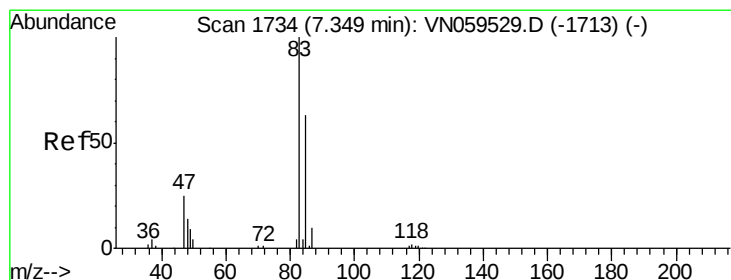
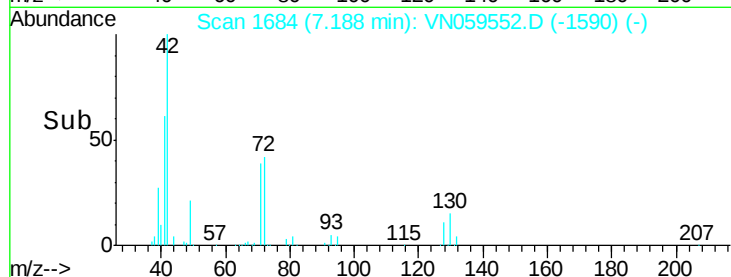
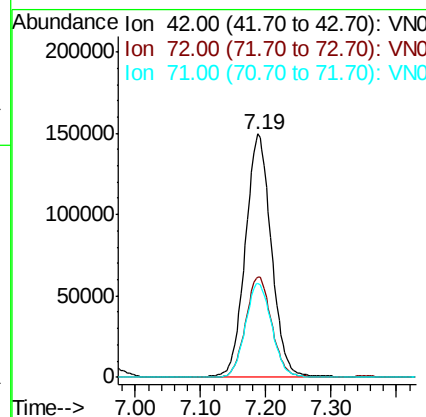
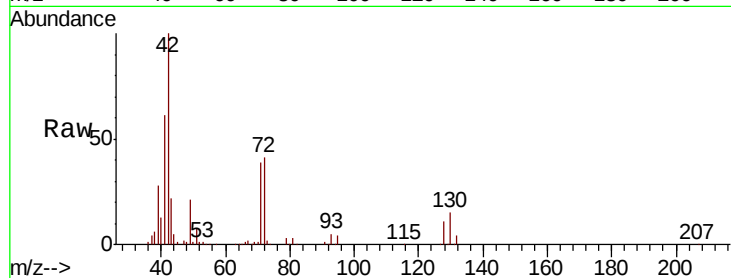
#29
Tetrahydrofuran
Concen: 250.495 ug/l
RT: 7.19 min Scan# 1684
Delta R.T. 0.00 min
Lab File: VN059552.D
Acq: 10 Dec 2019 17:00

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
42	100		
72	41.2	32.7	49.1
71	39.0	31.4	47.2

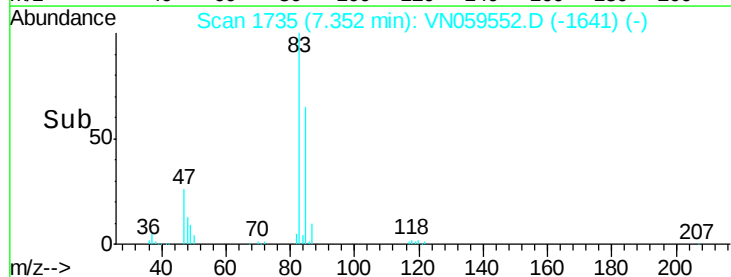
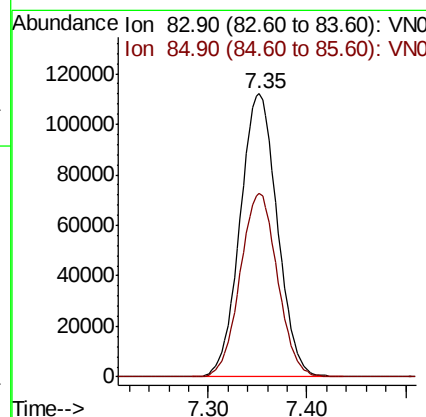
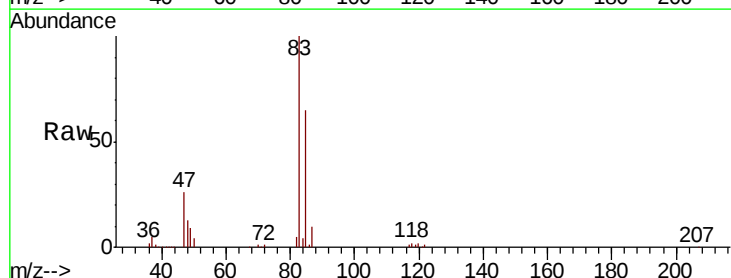
Manual Integrations
APPROVED

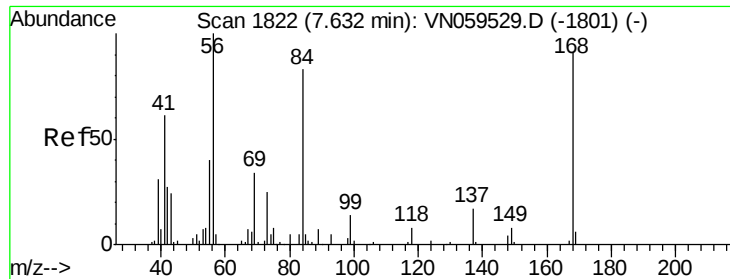
apatel
12/11/2019 2:16:04 PM



#30
Chloroform
Concen: 50.617 ug/l
RT: 7.35 min Scan# 1735
Delta R.T. 0.00 min
Lab File: VN059552.D
Acq: 10 Dec 2019 17:00

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.0	50.6	75.8





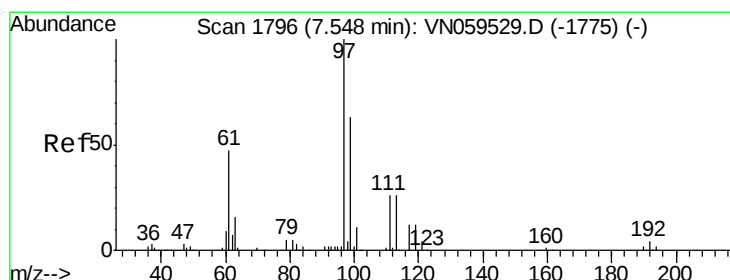
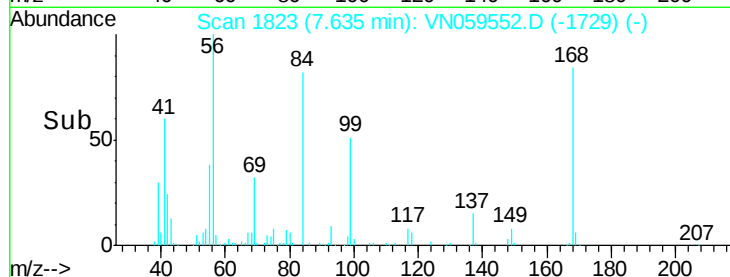
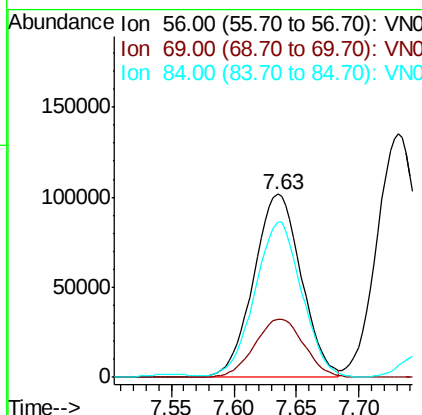
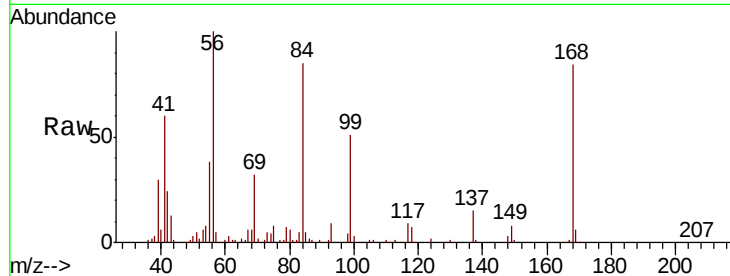
#31
Cyclohexane
Concen: 47.177 ug/l
RT: 7.63 min Scan# 1823
Delta R.T. 0.00 min
Lab File: VN059552.D
Acq: 10 Dec 2019 17:00

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
56	100		
69	31.6	26.9	40.3
84	83.7	66.5	99.7

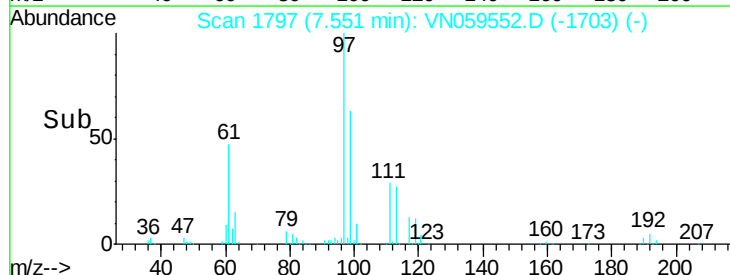
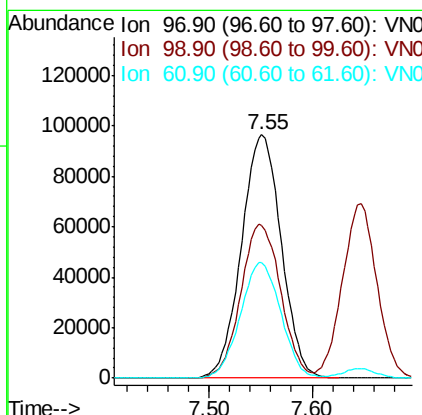
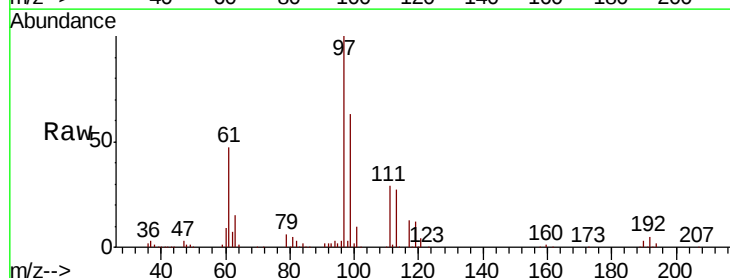
Manual Integrations
APPROVED

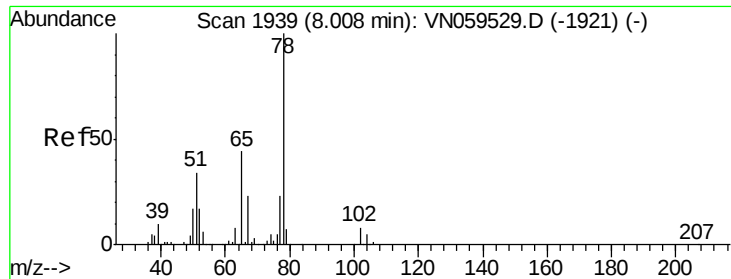
apatel
12/11/2019 2:16:04 PM



#32
1,1,1-Trichloroethane
Concen: 50.367 ug/l
RT: 7.55 min Scan# 1797
Delta R.T. 0.00 min
Lab File: VN059552.D
Acq: 10 Dec 2019 17:00

Tgt Ion	Ratio	Lower	Upper
97	100		
99	63.4	51.4	77.2
61	48.3	38.5	57.7





#33

1,2-Dichloroethane-d4

Concen: 49.600 ug/l

RT: 8.01 min Scan# 1939

Delta R.T. -0.00 min

Lab File: VN059552.D

Acq: 10 Dec 2019 17:00

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 65 Resp: 187958

Ion Ratio Lower Upper

65 100

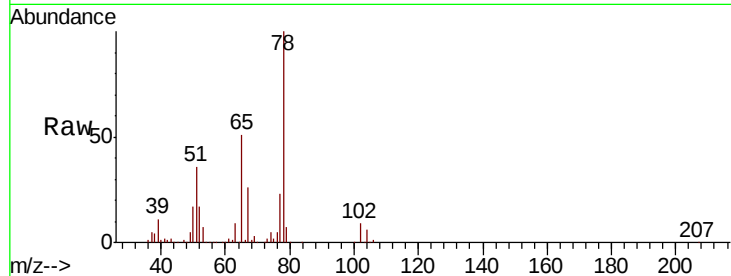
67 52.7 0.0 103.6

Manual Integrations

APPROVED

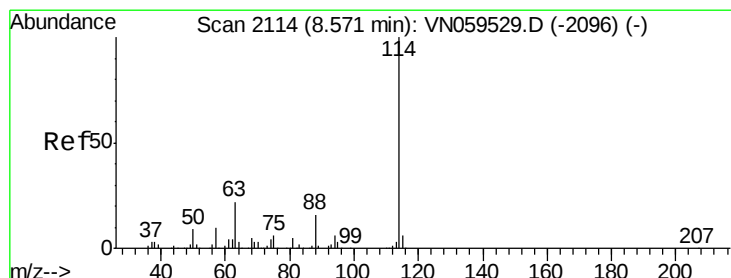
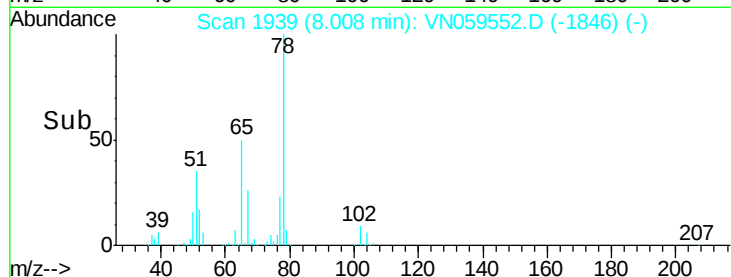
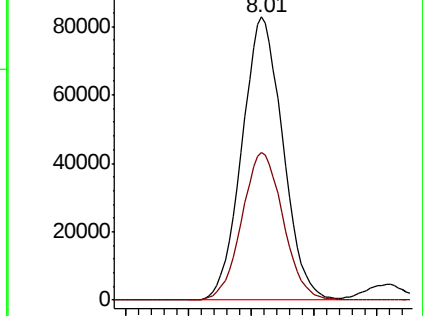
apatel

12/11/2019 2:16:04 PM



Abundance Ion 64.90 (64.60 to 65.60): VN059552.D (-1846) (-)

Ion 66.90 (66.60 to 67.60): VN059552.D (-1846) (-)



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.57 min Scan# 2114

Delta R.T. -0.00 min

Lab File: VN059552.D

Acq: 10 Dec 2019 17:00

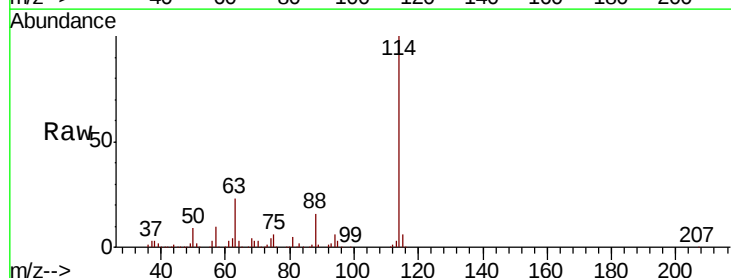
Tgt Ion: 114 Resp: 440910

Ion Ratio Lower Upper

114 100

63 22.8 0.0 45.0

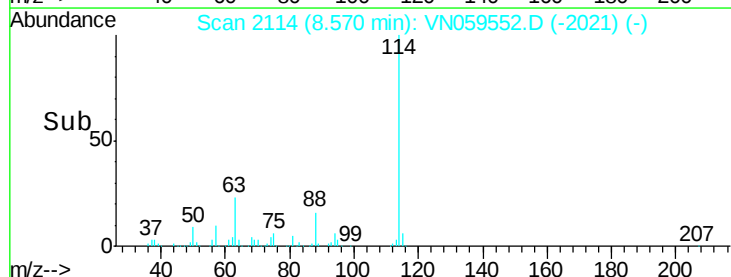
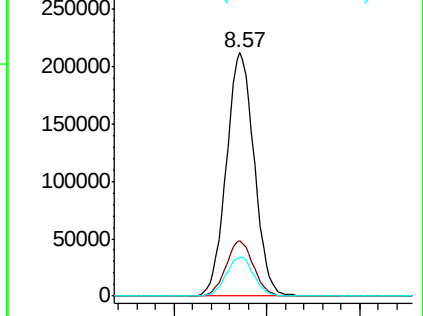
88 16.1 0.0 32.2

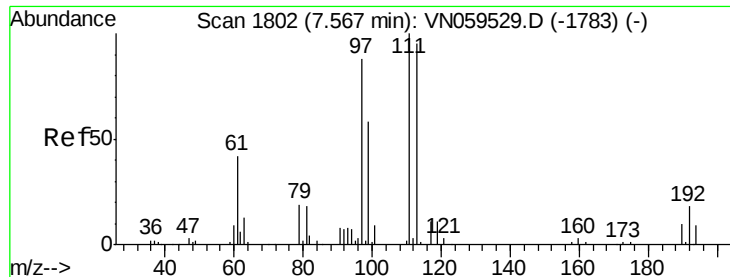


Abundance Ion 113.90 (113.60 to 114.60): VN059552.D (-2096) (-)

Ion 63.00 (62.70 to 63.70): VN059552.D (-2096) (-)

Ion 87.90 (87.60 to 88.60): VN059552.D (-2096) (-)





#35

Dibromofluoromethane

Concen: 51.523 ug/l

RT: 7.57 min Scan# 1803

Delta R.T. 0.00 min

Lab File: VN059552.D

Acq: 10 Dec 2019 17:00

Instrument :

MSVOA_N

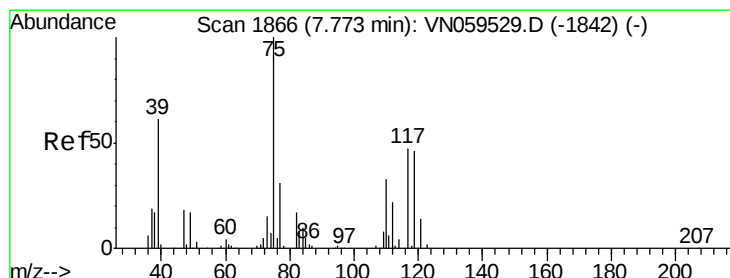
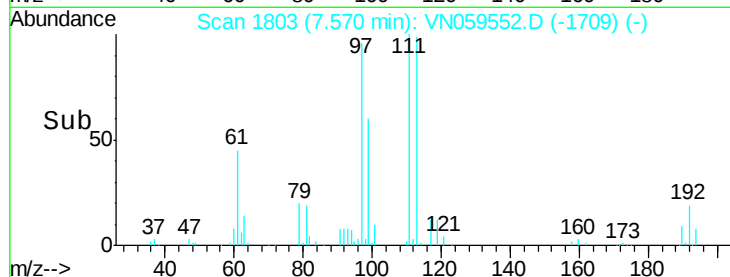
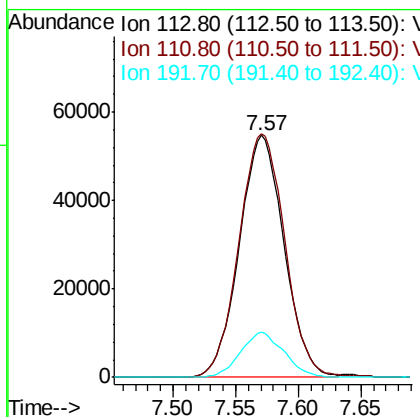
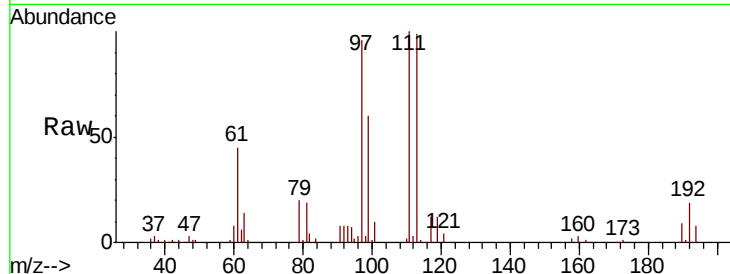
ClientSampleId :

VSTDCCC050EC

Tot Ion:	113	Resp:	135562
Ion Ratio	Lower	Upper	
113	100		
111	103.3	82.2	123.4
192	18.1	14.8	22.2

Manual Integrations
APPROVED

apatel
12/11/2019 2:16:04 PM



#36

1,1-Dichloropropene

Concen: 49.772 ug/l

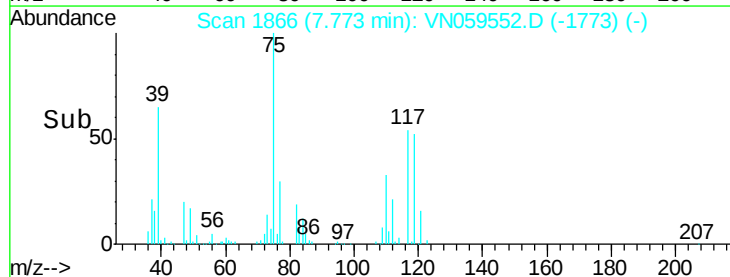
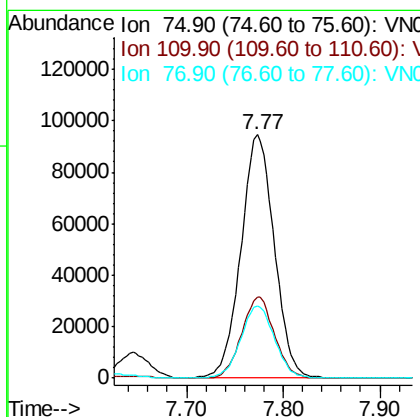
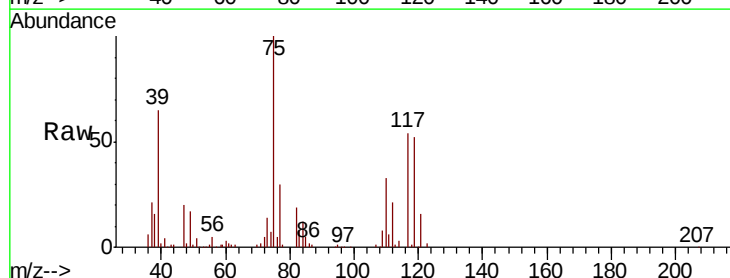
RT: 7.77 min Scan# 1866

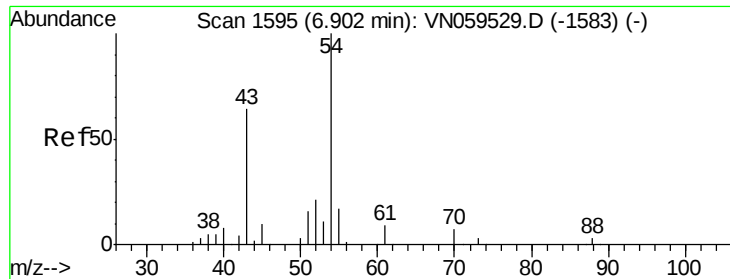
Delta R.T. -0.00 min

Lab File: VN059552.D

Acq: 10 Dec 2019 17:00

Tgt Ion:	75	Resp:	225147
Ion Ratio	Lower	Upper	
75	100		
110	33.0	16.7	50.0
77	30.4	24.6	37.0





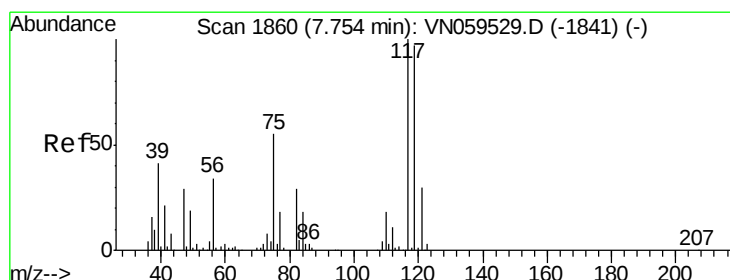
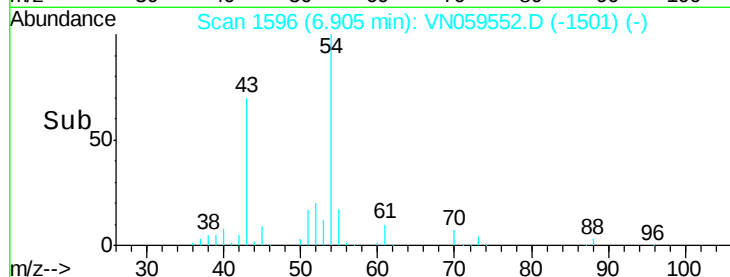
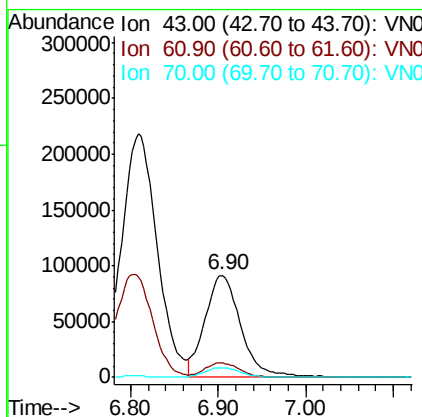
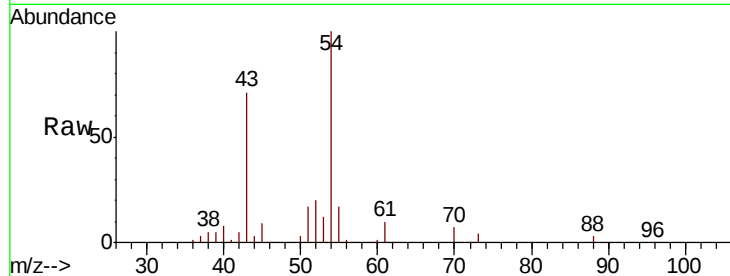
#37
Ethyl Acetate
Concen: 48.587 ug/l
RT: 6.90 min Scan# 1596
Delta R.T. 0.00 min
Lab File: VN059552.D
Acq: 10 Dec 2019 17:00

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
43	100		
61	13.9	11.0	16.6
70	9.7	7.7	11.5

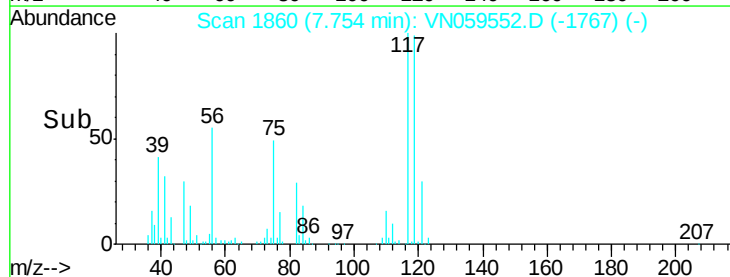
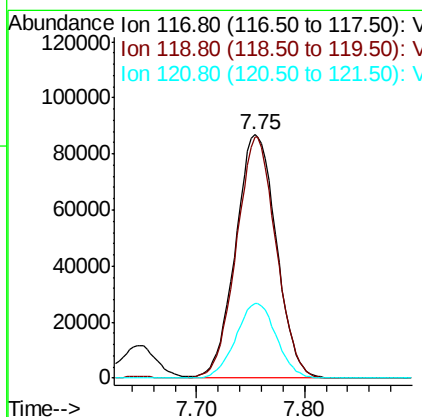
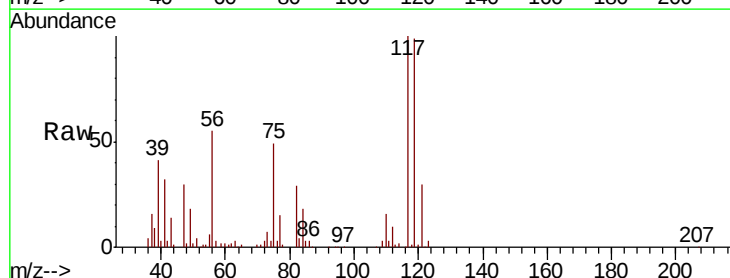
Manual Integrations
APPROVED

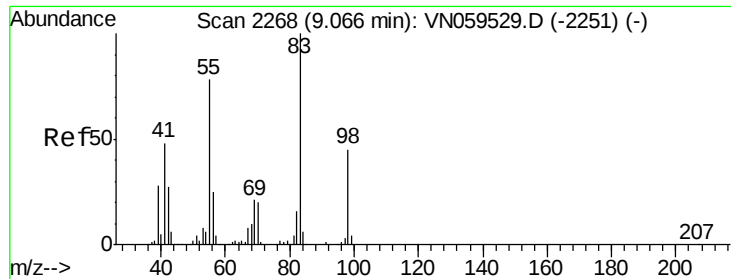
apatel
12/11/2019 2:16:04 PM



#38
Carbon Tetrachloride
Concen: 51.216 ug/l
RT: 7.75 min Scan# 1860
Delta R.T. -0.00 min
Lab File: VN059552.D
Acq: 10 Dec 2019 17:00

Tgt Ion	Ratio	Lower	Upper
117	100		
119	99.1	77.0	115.4
121	30.4	24.1	36.1





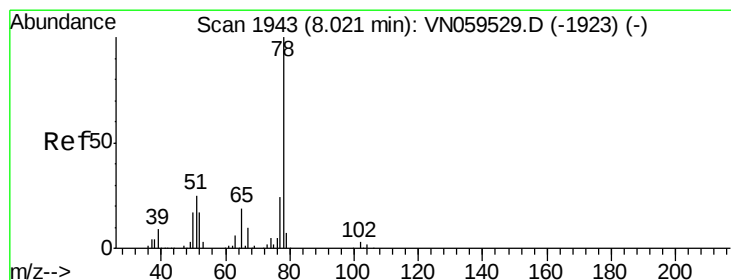
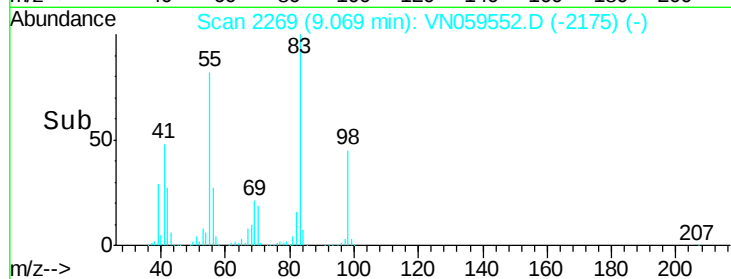
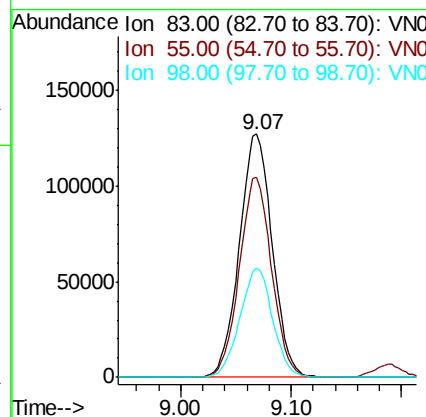
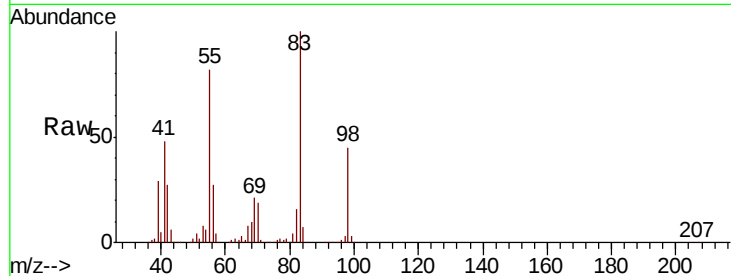
#39
Methvlcvclohexane
Concen: 51.811 ug/l
RT: 9.07 min Scan# 2269
Delta R.T. 0.00 min
Lab File: VN059552.D
Acq: 10 Dec 2019 17:00

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
83	100		
55	82.3	62.7	94.1
98	44.9	35.7	53.5

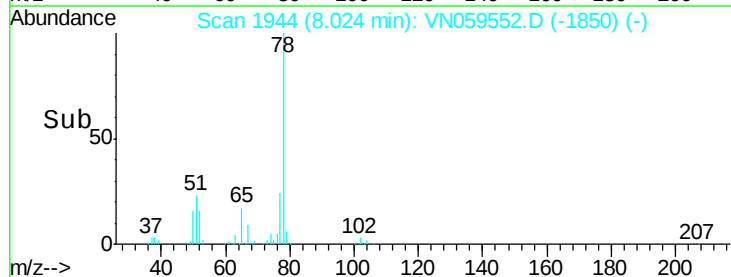
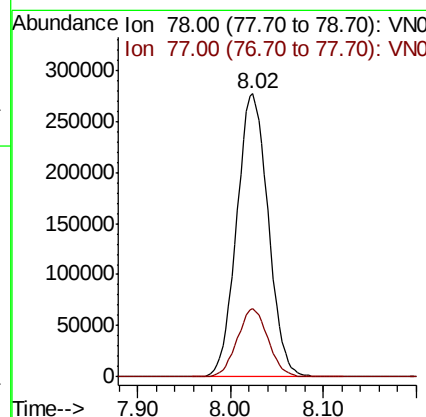
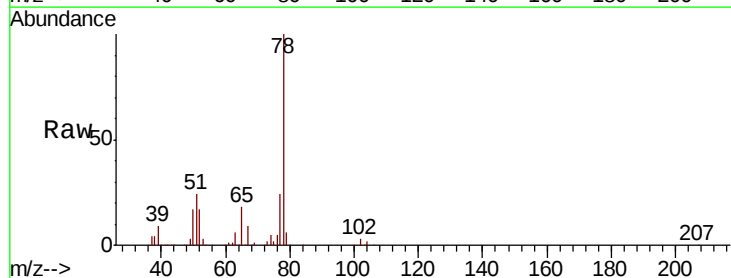
Manual Integrations
APPROVED

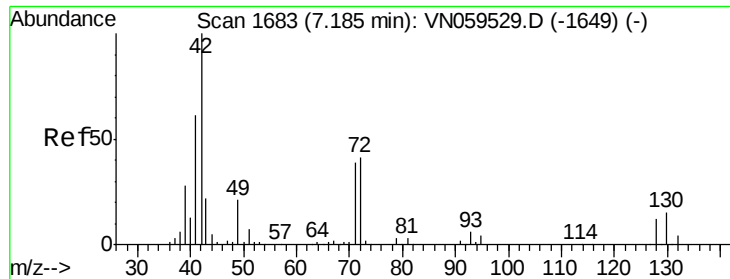
apatel
12/11/2019 2:16:04 PM



#40
Benzene
Concen: 50.435 ug/l
RT: 8.02 min Scan# 1944
Delta R.T. 0.00 min
Lab File: VN059552.D
Acq: 10 Dec 2019 17:00

Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.1	18.8	28.2





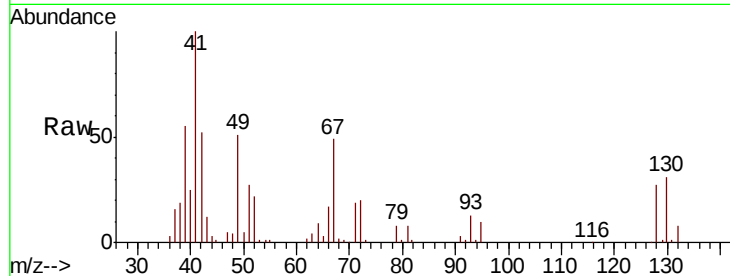
#41
Methacrylonitrile
Concen: 50.356 ug/l m
RT: 7.16 min Scan# 1674
Delta R.T. 0.00 min
Lab File: VN059552.D
Acq: 10 Dec 2019 17:00

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

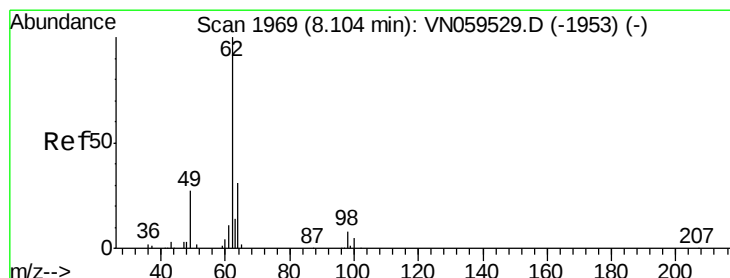
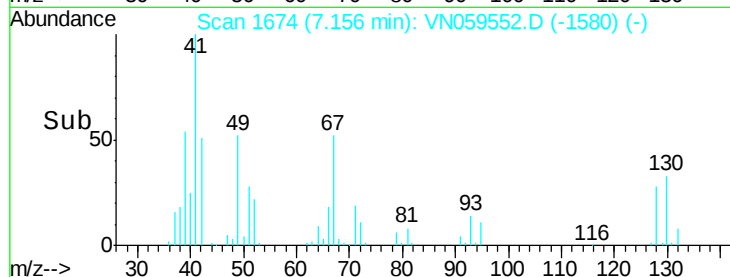
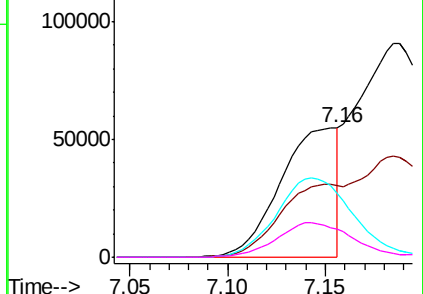
Tot Ion	41	Resp	110698
Ion Ratio	Lower	Upper	
41	100		
39	0.0	0.0	0.0
67	0.0	0.0	0.0
52	0.0	0.0	0.0

Manual Integrations
APPROVED

apatel
12/11/2019 2:16:04 PM

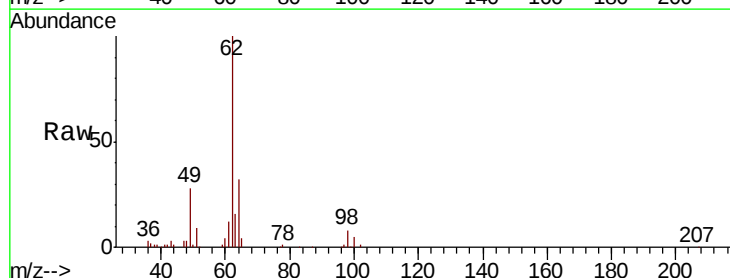


Abundance Ion 41.00 (40.70 to 41.70): VNC
Ion 39.00 (38.70 to 39.70): VNC
Ion 67.00 (66.70 to 67.70): VNC
Ion 52.00 (51.70 to 52.70): VNC

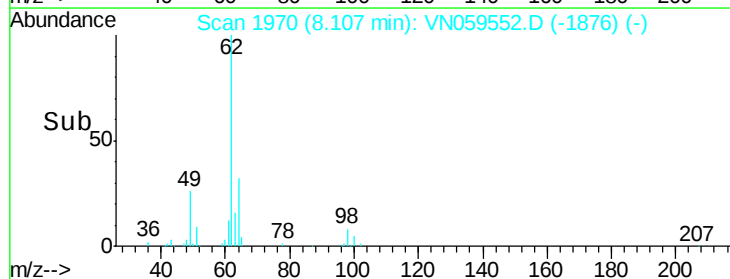
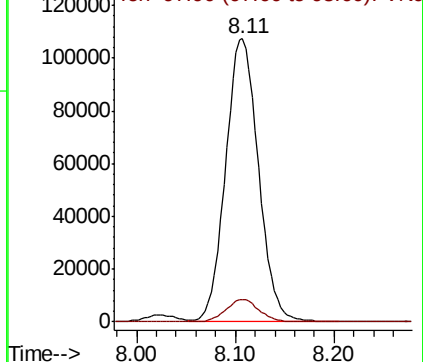


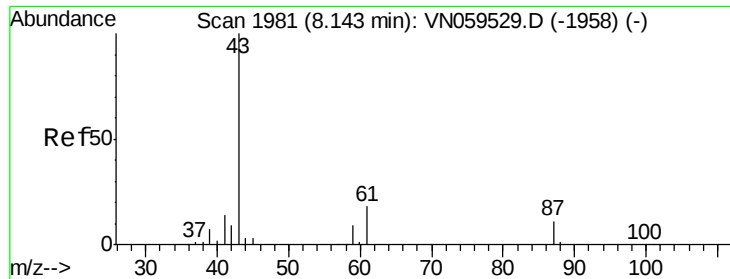
#42
1,2-Dichloroethane
Concen: 51.764 ug/l
RT: 8.11 min Scan# 1970
Delta R.T. 0.00 min
Lab File: VN059552.D
Acq: 10 Dec 2019 17:00

Tgt Ion	62	Resp	249231
Ion Ratio	Lower	Upper	
62	100		
98	8.0	0.0	15.4



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





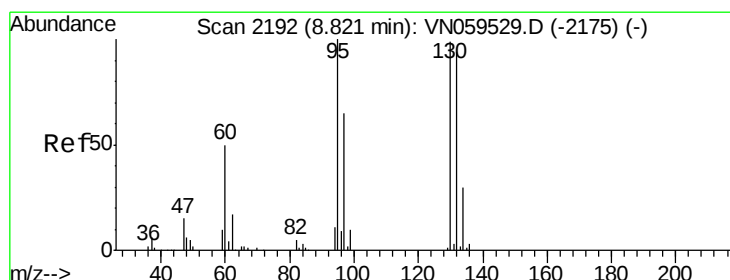
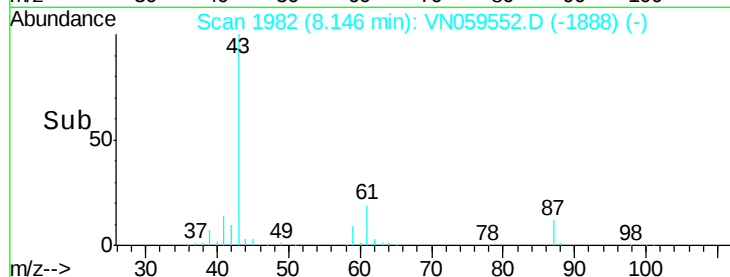
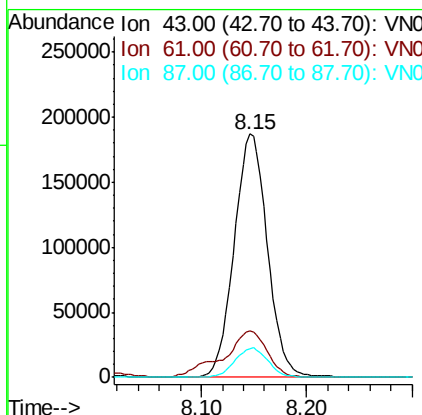
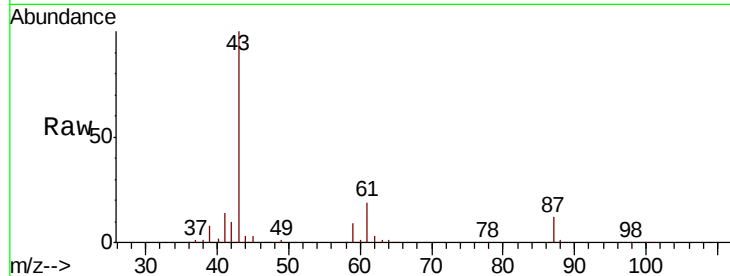
#43
Isopropyl Acetate
Concen: 52.053 ug/l
RT: 8.15 min Scan# 1982
Delta R.T. 0.00 min
Lab File: VN059552.D
Acq: 10 Dec 2019 17:00

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
43	100		
61	25.5	19.8	29.6
87	12.1	9.4	14.2

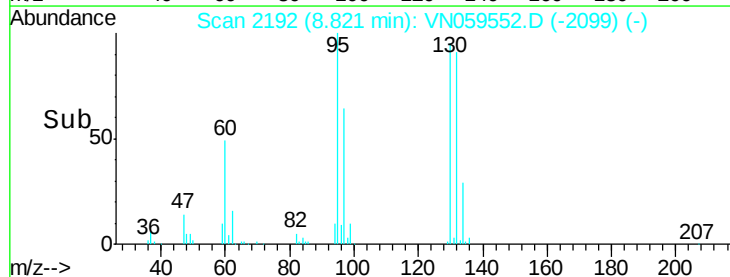
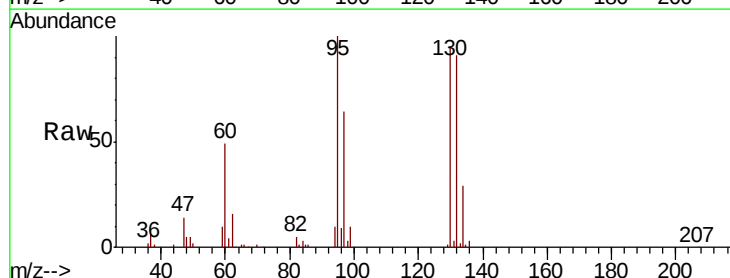
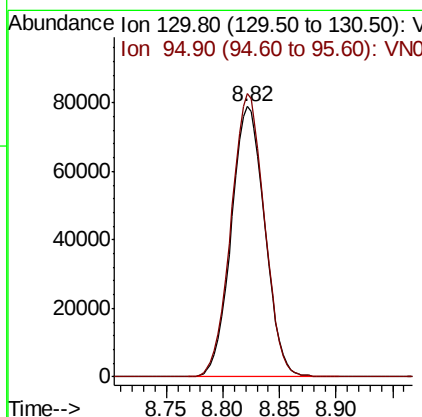
Manual Integrations
APPROVED

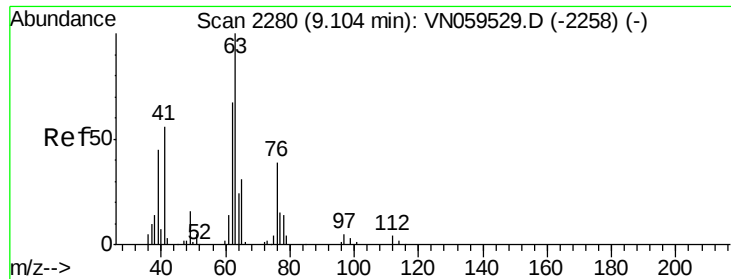
apatel
12/11/2019 2:16:04 PM



#44
Trichloroethene
Concen: 49.933 ug/l
RT: 8.82 min Scan# 2192
Delta R.T. -0.00 min
Lab File: VN059552.D
Acq: 10 Dec 2019 17:00

Tgt Ion	Ratio	Lower	Upper
130	100		
95	104.8	0.0	202.0





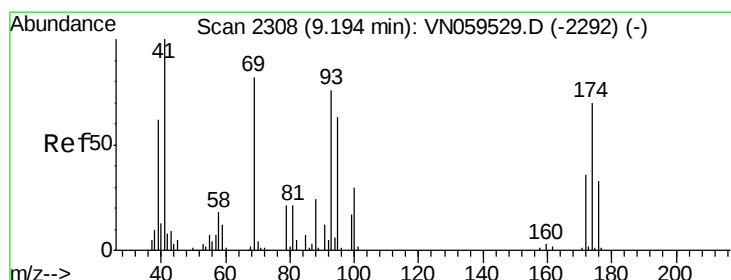
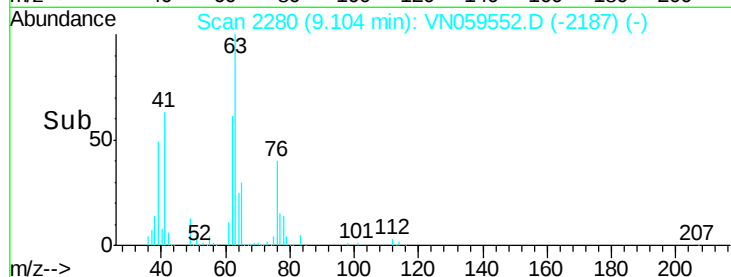
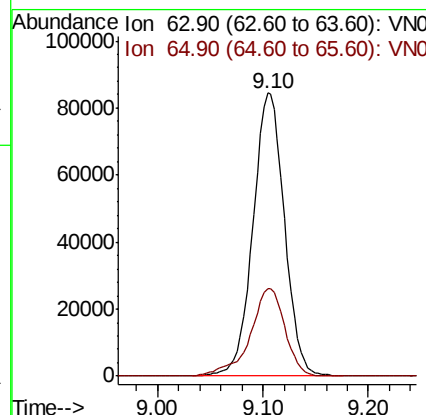
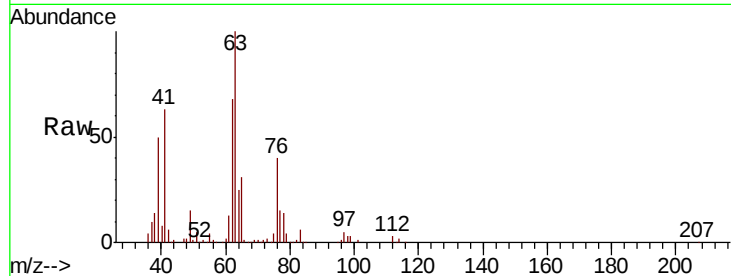
#45
 1,2-Dichloropropane
 Concen: 51.321 ug/l
 RT: 9.10 min Scan# 2280
 Delta R.T. -0.00 min
 Lab File: VN059552.D
 Acq: 10 Dec 2019 17:00

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion: 63 Resp: 175688
 Ion Ratio Lower Upper
 63 100
 65 31.0 24.8 37.2

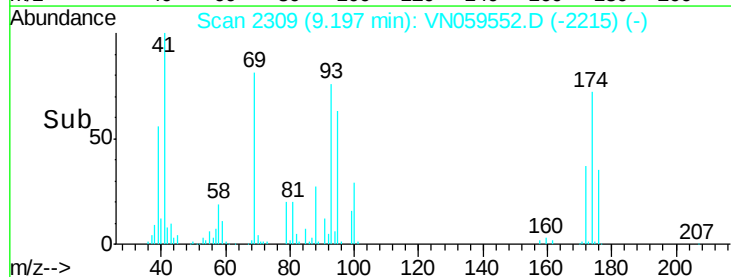
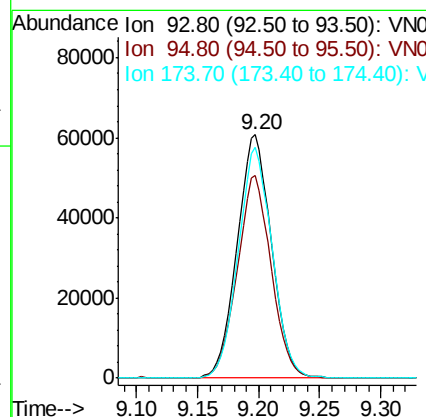
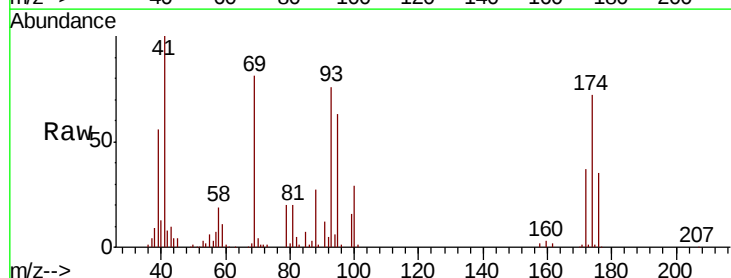
Manual Integrations
 APPROVED

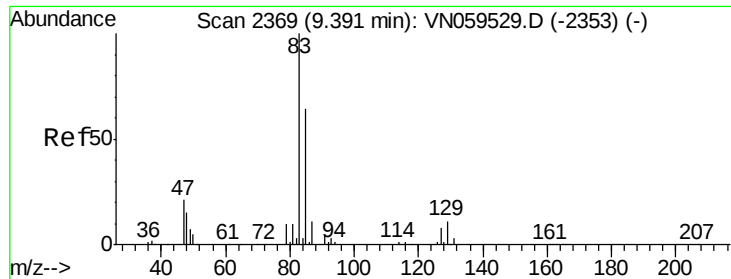
apatel
 12/11/2019 2:16:04 PM



#46
 Dibromomethane
 Concen: 52.463 ug/l
 RT: 9.20 min Scan# 2309
 Delta R.T. 0.00 min
 Lab File: VN059552.D
 Acq: 10 Dec 2019 17:00

Tgt Ion: 93 Resp: 118691
 Ion Ratio Lower Upper
 93 100
 95 82.1 67.0 100.6
 174 93.6 75.6 113.4





#47

Bromodichloromethane

Concen: 52.274 ug/l

RT: 9.39 min Scan# 2369

Delta R.T. -0.00 min

Lab File: VN059552.D

Acq: 10 Dec 2019 17:00

Instrument :

MSVOA_N

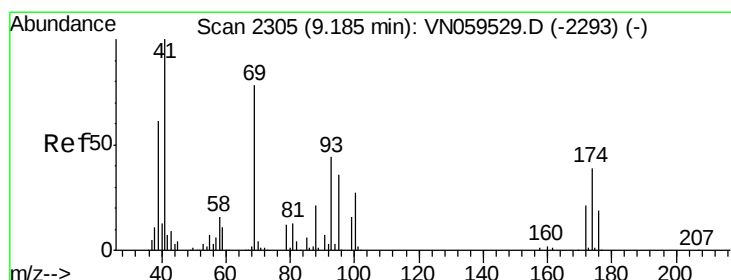
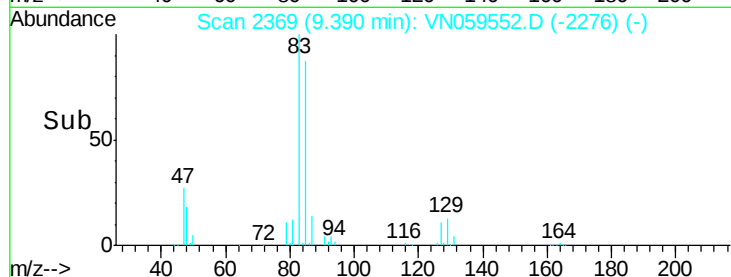
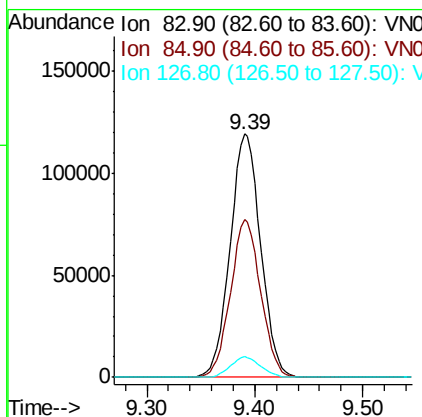
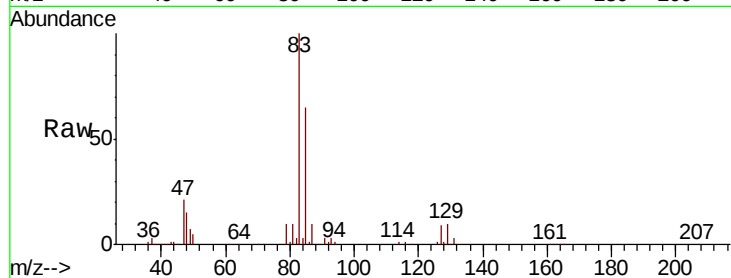
ClientSampleId :

VSTDCCC050EC

Tot Ion:	83	Resp:	235041
Ion Ratio	Lower	Upper	
83	100		
85	64.9	51.4	77.0
127	8.5	6.7	10.1

Manual Integrations
APPROVED

apatel
12/11/2019 2:16:04 PM



#48

Methyl methacrylate

Concen: 55.827 ug/l

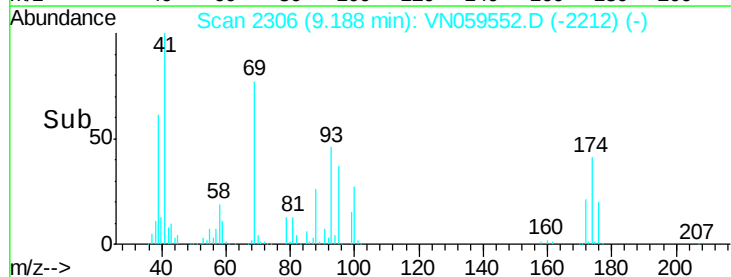
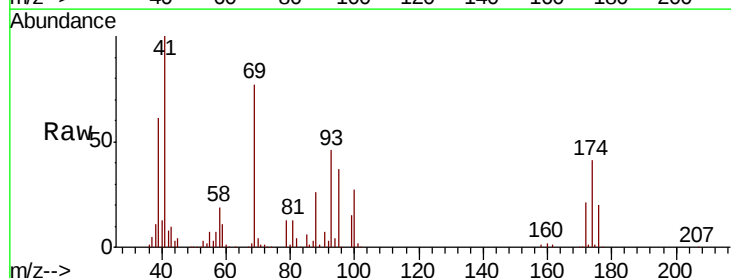
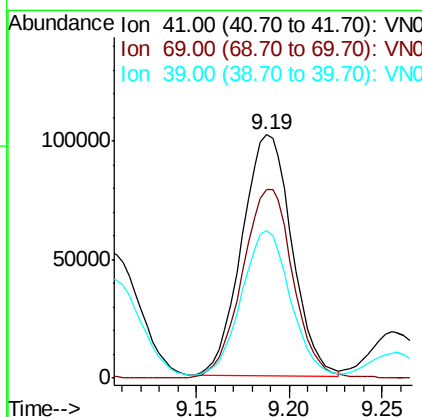
RT: 9.19 min Scan# 2306

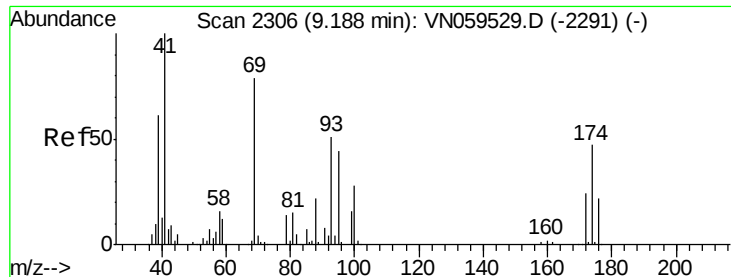
Delta R.T. 0.00 min

Lab File: VN059552.D

Acq: 10 Dec 2019 17:00

Tgt Ion:	41	Resp:	190608
Ion Ratio	Lower	Upper	
41	100		
69	80.2	64.0	96.0
39	60.7	50.0	75.0





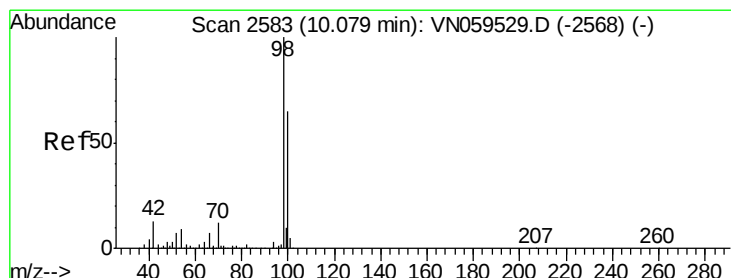
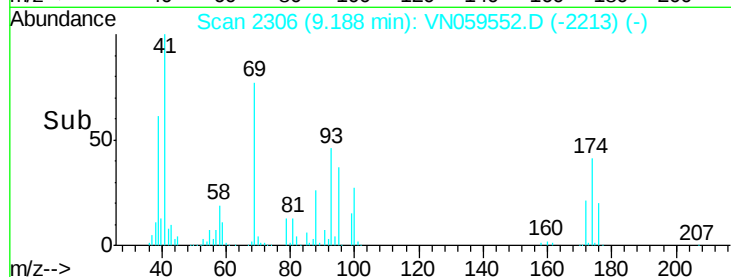
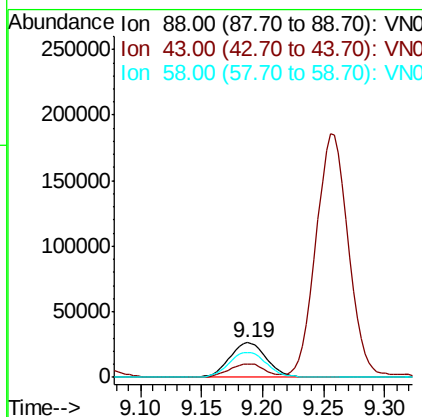
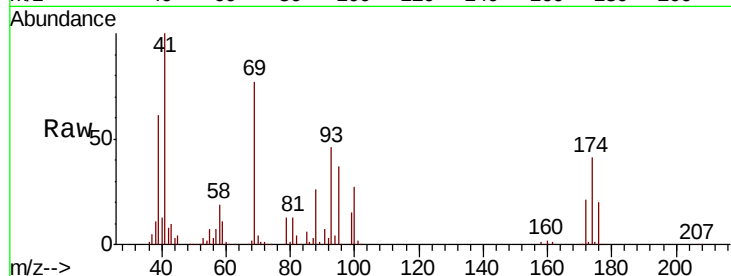
#49
1,4-Dioxane
Concen: 1291.540 ug/l
RT: 9.19 min Scan# 2306
Delta R.T. -0.00 min
Lab File: VN059552.D
Acq: 10 Dec 2019 17:00

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	88	Resp	56420
Ion Ratio	100	Lower	Upper
88	100		
43	36.8	31.4	47.0
58	72.5	61.0	91.6

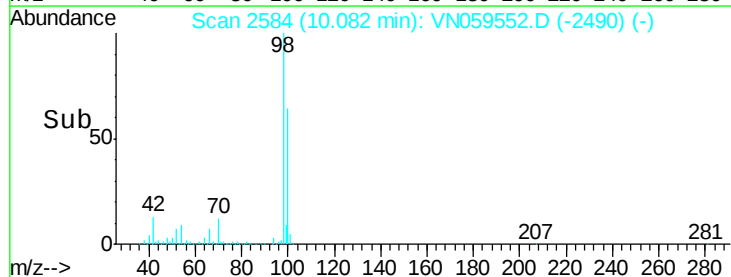
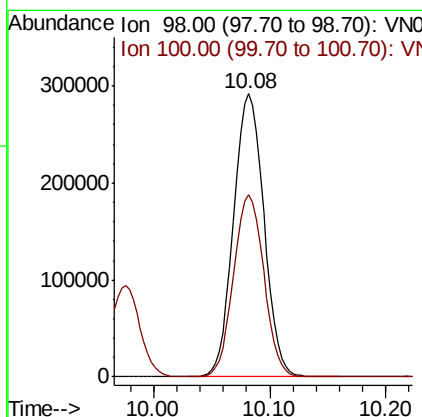
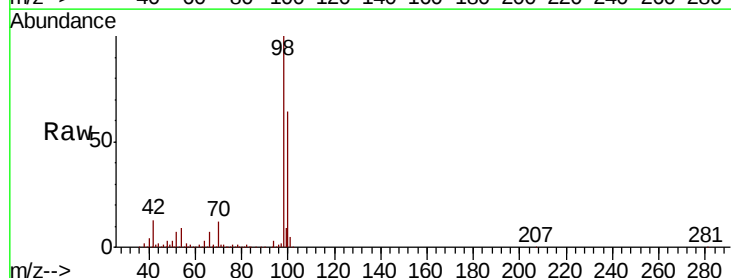
Manual Integrations
APPROVED

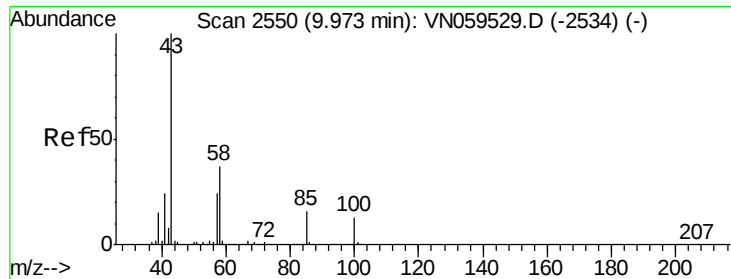
apatel
12/11/2019 2:16:04 PM



#50
Toluene-d8
Concen: 49.420 ug/l
RT: 10.08 min Scan# 2584
Delta R.T. 0.00 min
Lab File: VN059552.D
Acq: 10 Dec 2019 17:00

Tgt Ion	98	Resp	530851
Ion Ratio	100	Lower	Upper
98	100		
100	64.1	51.8	77.8





#51

4-Methyl-2-Pentanone

Concen: 257.549 ug/l

RT: 9.98 min Scan# 2551

Delta R.T. 0.00 min

Lab File: VN059552.D

Acq: 10 Dec 2019 17:00

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 43 Resp: 1277696

Ion Ratio Lower Upper

43 100

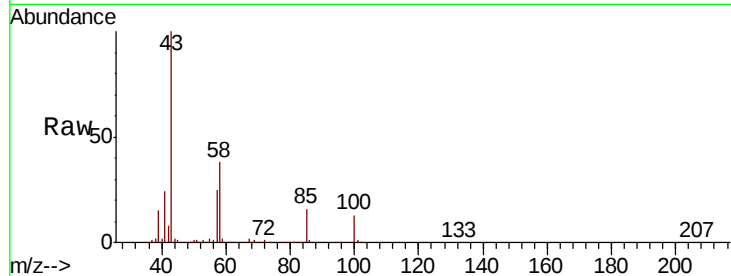
58 37.4 30.1 45.1

Manual Integrations

APPROVED

apatel

12/11/2019 2:16:04 PM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

800000

600000

400000

200000

0

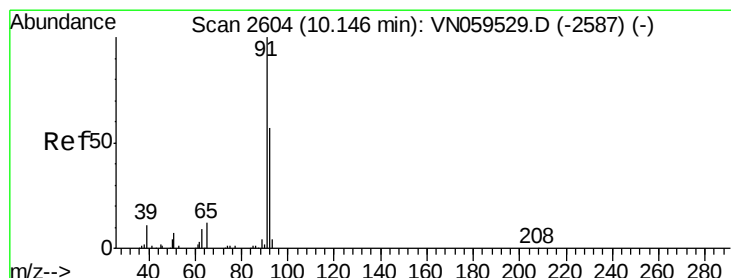
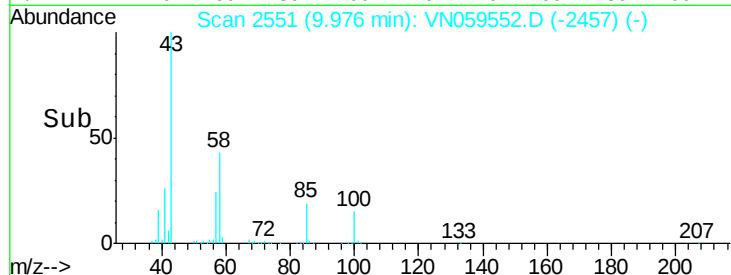
9.90

9.98

10.00

10.10

Time-->



#52

Toluene

Concen: 52.626 ug/l

RT: 10.15 min Scan# 2604

Delta R.T. -0.00 min

Lab File: VN059552.D

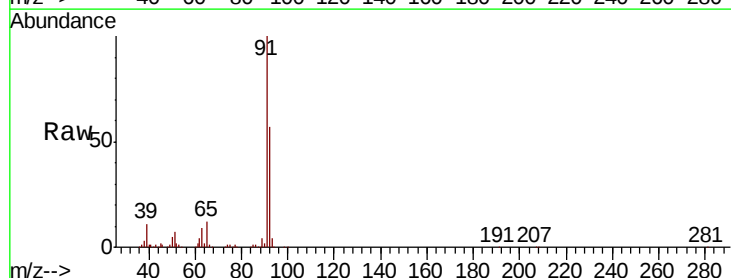
Acq: 10 Dec 2019 17:00

Tgt Ion: 92 Resp: 405199

Ion Ratio Lower Upper

92 100

91 175.0 140.7 211.1



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0

400000

300000

200000

100000

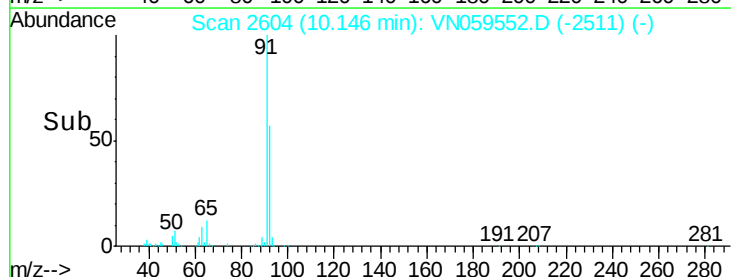
0

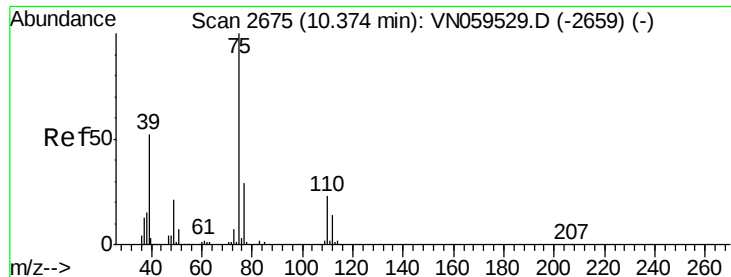
10.10

10.15

10.20

Time-->





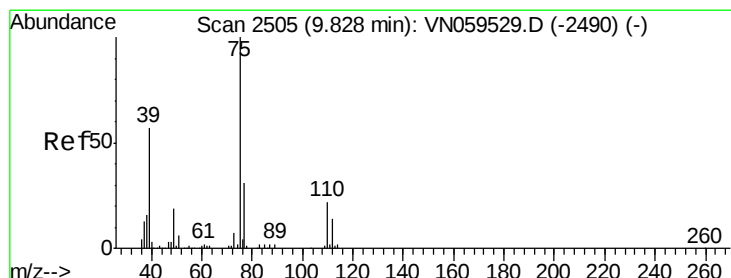
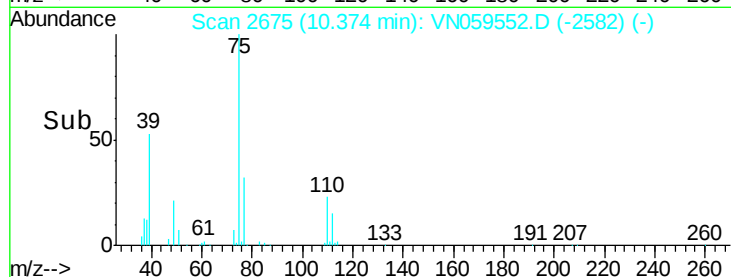
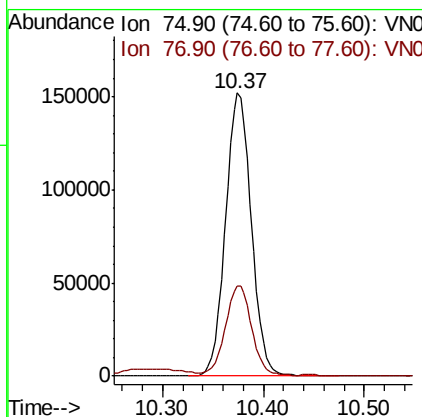
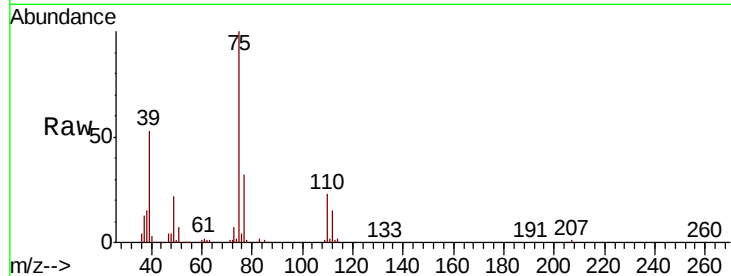
#53
 t-1,3-Dichloropropene
 Concen: 51.838 ug/l
 RT: 10.37 min Scan# 2675
 Delta R.T. 0.00 min
 Lab File: VN059552.D
 Acq: 10 Dec 2019 17:00

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion: 75 Resp: 271569
 Ion Ratio Lower Upper
 75 100
 77 31.6 24.5 36.7

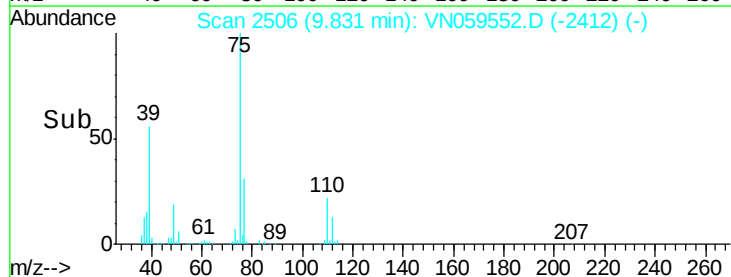
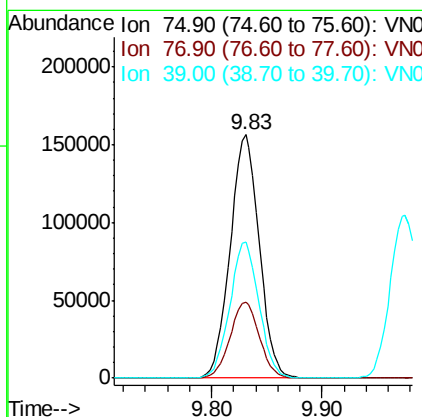
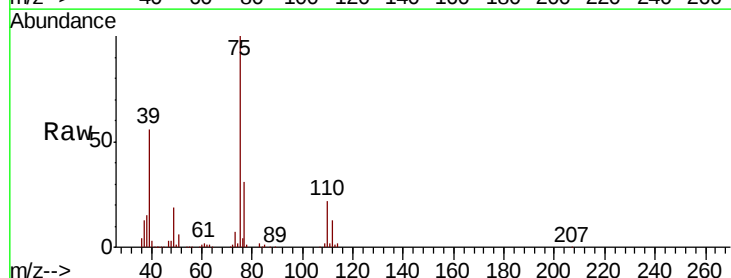
Manual Integrations
 APPROVED

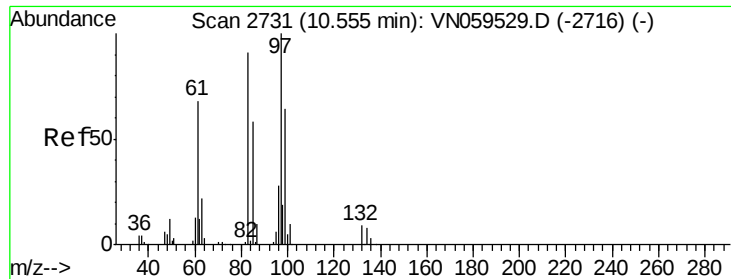
apatel
 12/11/2019 2:16:04 PM



#54
 cis-1,3-Dichloropropene
 Concen: 53.258 ug/l
 RT: 9.83 min Scan# 2506
 Delta R.T. 0.00 min
 Lab File: VN059552.D
 Acq: 10 Dec 2019 17:00

Tgt Ion: 75 Resp: 285553
 Ion Ratio Lower Upper
 75 100
 77 31.4 24.6 36.8
 39 55.9 45.6 68.4





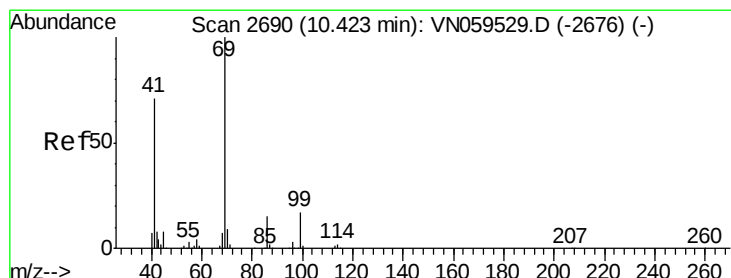
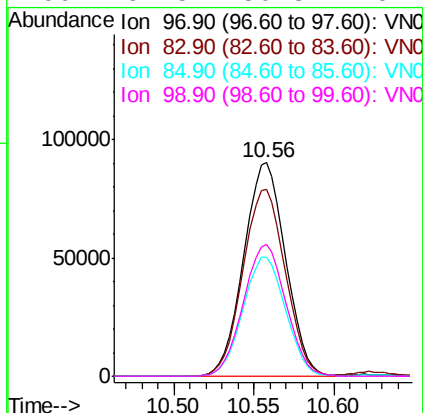
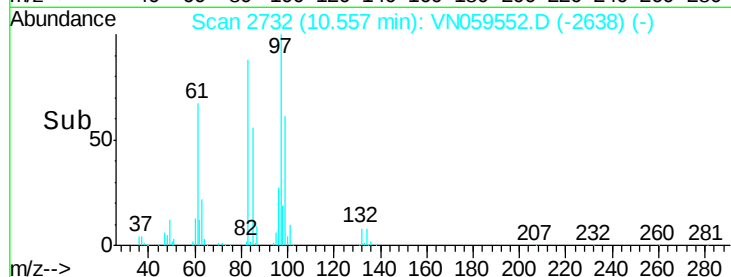
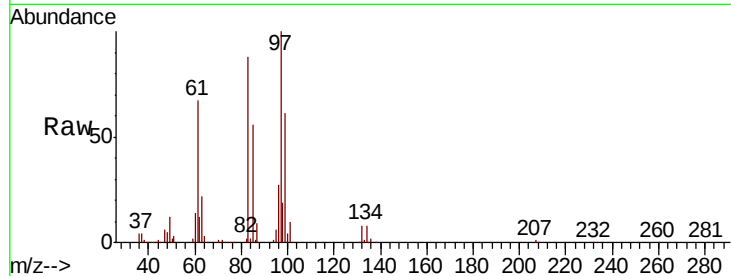
#55
 1,1,2-Trichloroethane
 Concen: 51.941 ug/l
 RT: 10.56 min Scan# 2732
 Delta R.T. 0.00 min
 Lab File: VN059552.D
 Acq: 10 Dec 2019 17:00

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
97	100		
83	87.6	72.9	109.3
85	55.9	46.1	69.1
99	61.5	50.8	76.2

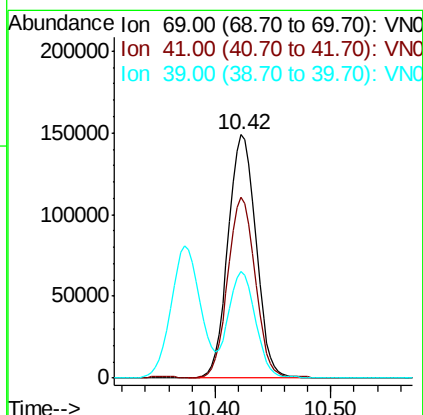
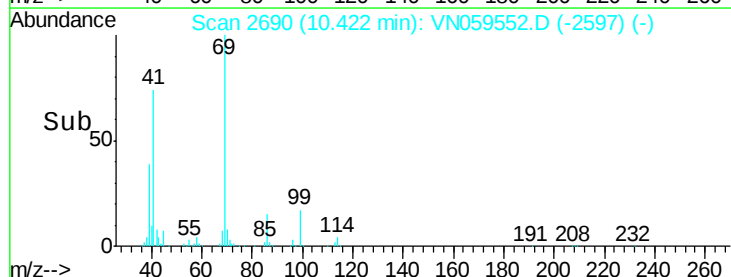
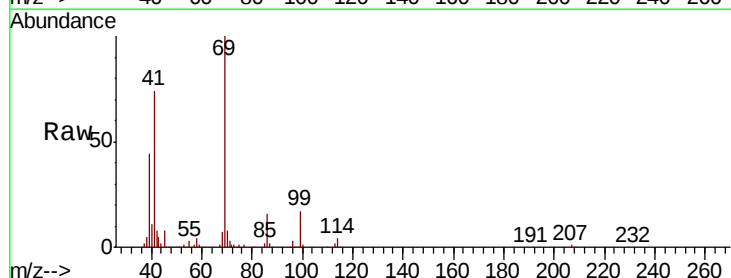
Manual Integrations
 APPROVED

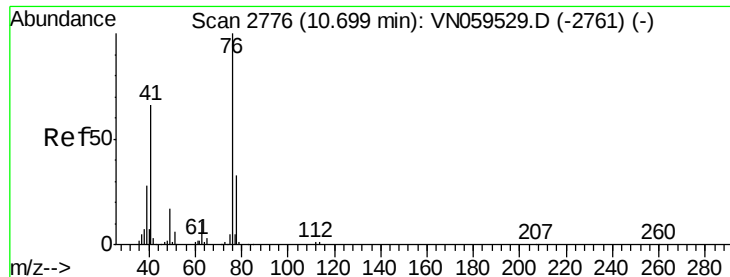
apatel
 12/11/2019 2:16:04 PM



#56
 Ethyl methacrylate
 Concen: 46.723 ug/l
 RT: 10.42 min Scan# 2690
 Delta R.T. 0.00 min
 Lab File: VN059552.D
 Acq: 10 Dec 2019 17:00

Tgt Ion	Ratio	Lower	Upper
69	100		
41	72.0	57.7	86.5
39	42.3	34.2	51.2





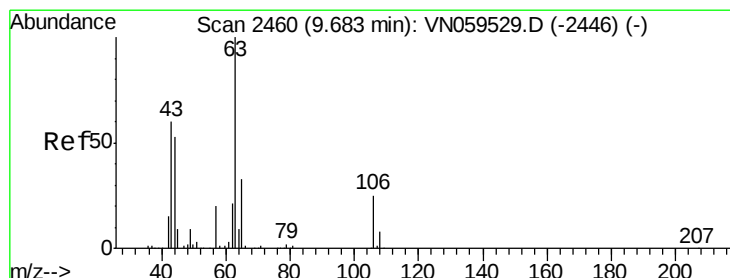
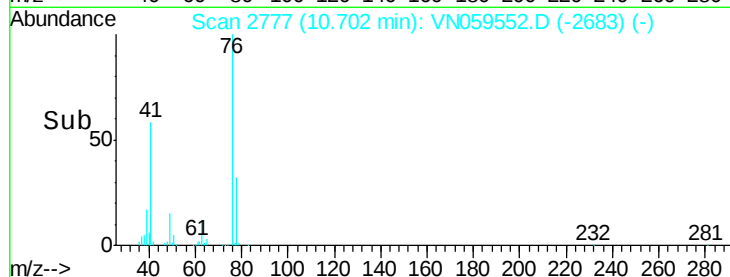
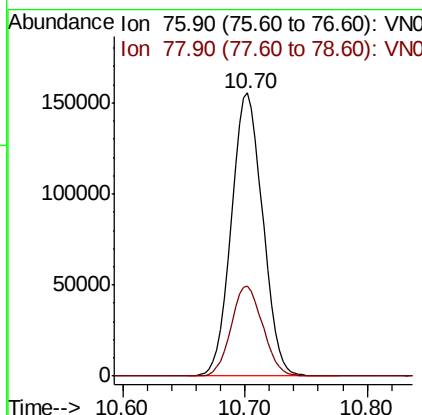
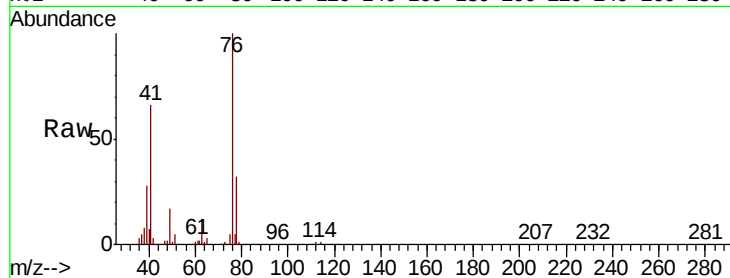
#57
 1,3-Dichloropropane
 Concen: 52.285 ug/l
 RT: 10.70 min Scan# 2777
 Delta R.T. 0.00 min
 Lab File: VN059552.D
 Acq: 10 Dec 2019 17:00

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion: 76 Resp: 278074
 Ion Ratio Lower Upper
 76 100
 78 32.3 26.1 39.1

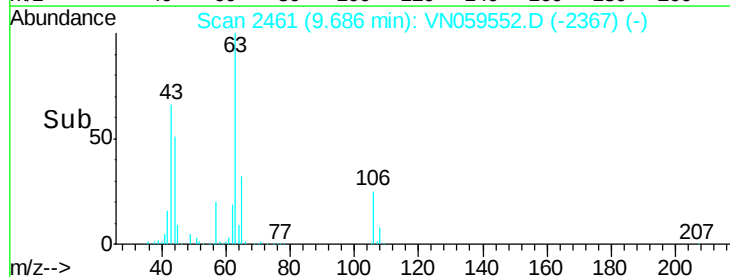
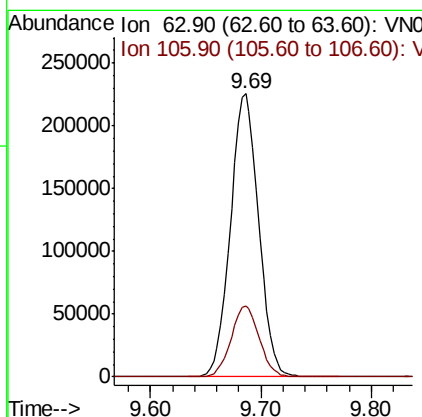
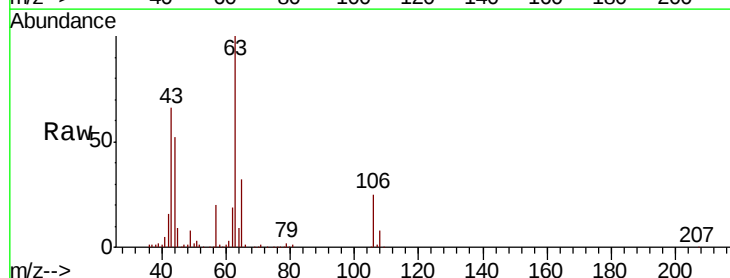
Manual Integrations
 APPROVED

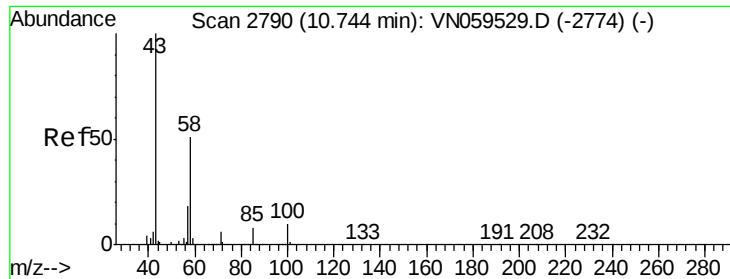
apatel
 12/11/2019 2:16:04 PM



#58
 2-Chloroethyl Vinyl ether
 Concen: 313.584 ug/l
 RT: 9.69 min Scan# 2461
 Delta R.T. 0.00 min
 Lab File: VN059552.D
 Acq: 10 Dec 2019 17:00

Tgt Ion: 63 Resp: 400040
 Ion Ratio Lower Upper
 63 100
 106 25.0 19.9 29.9





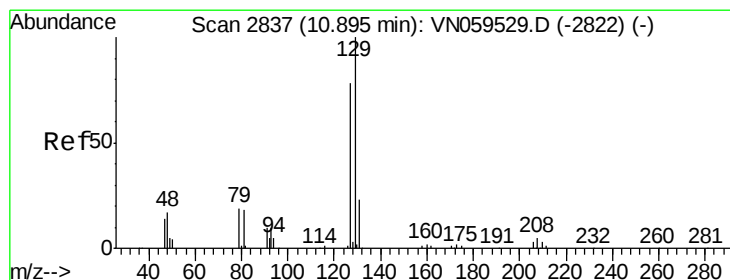
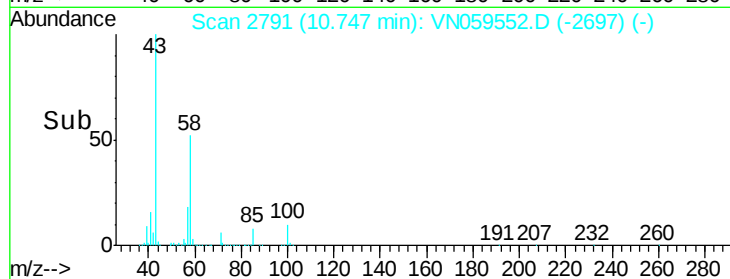
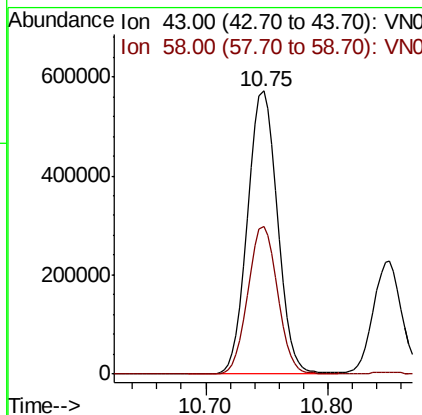
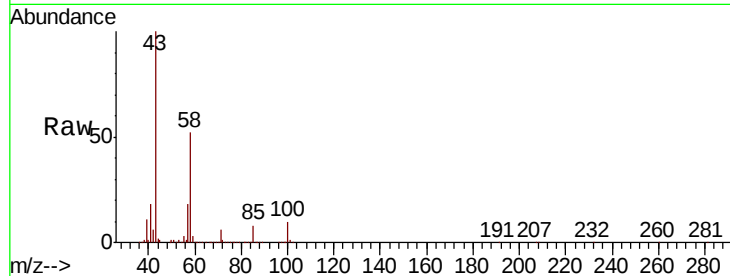
#59
2-Hexanone
Concen: 254.307 ug/l
RT: 10.75 min Scan# 2791
Delta R.T. 0.00 min
Lab File: VN059552.D
Acq: 10 Dec 2019 17:00

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion: 43 Resp: 963867
Ion Ratio Lower Upper
43 100
58 52.0 25.9 77.6

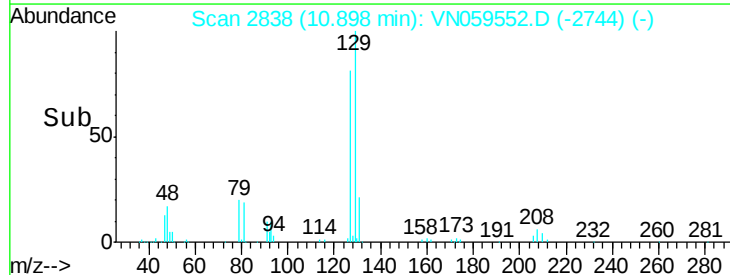
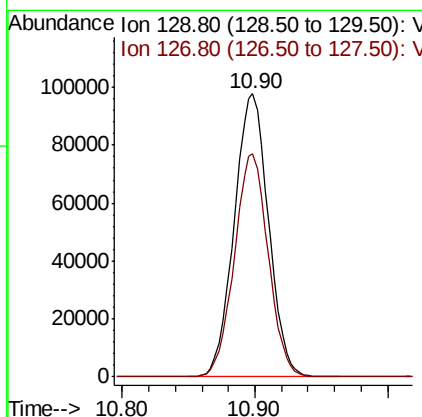
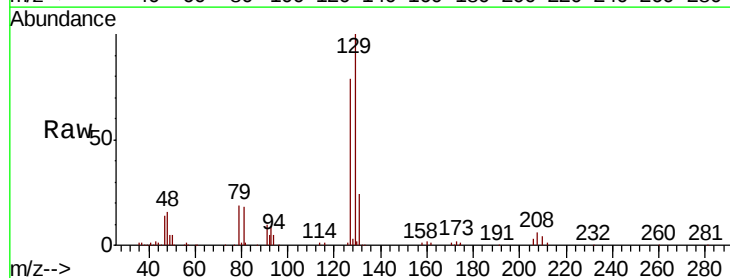
Manual Integrations
APPROVED

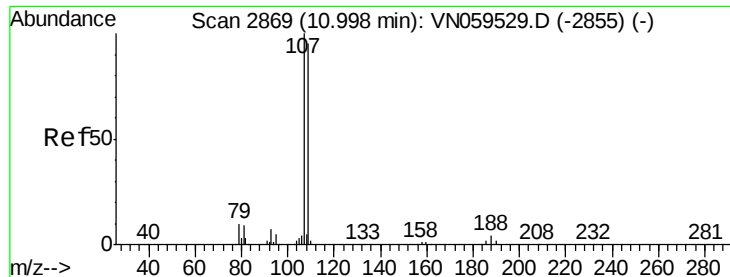
apatel
12/11/2019 2:16:04 PM



#60
Dibromochloromethane
Concen: 47.290 ug/l
RT: 10.90 min Scan# 2838
Delta R.T. 0.00 min
Lab File: VN059552.D
Acq: 10 Dec 2019 17:00

Tgt Ion: 129 Resp: 175540
Ion Ratio Lower Upper
129 100
127 77.8 38.9 116.6





#61

1,2-Dibromoethane

Concen: 51.625 ug/l

RT: 11.00 min Scan# 2870

Delta R.T. 0.00 min

Lab File: VN059552.D

Acq: 10 Dec 2019 17:00

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 107 Resp: 167359

Ion Ratio Lower Upper

107 100

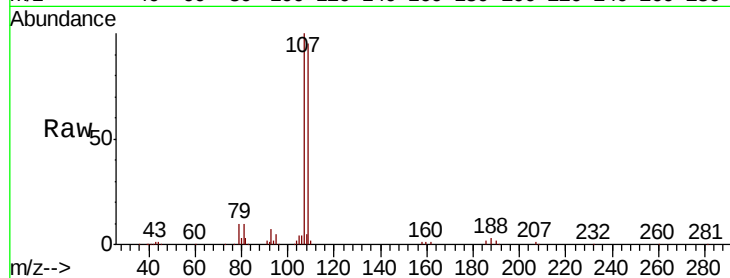
109 94.8 76.1 114.1

Manual Integrations

APPROVED

apatel

12/11/2019 2:16:04 PM



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V

11.00

100000

80000

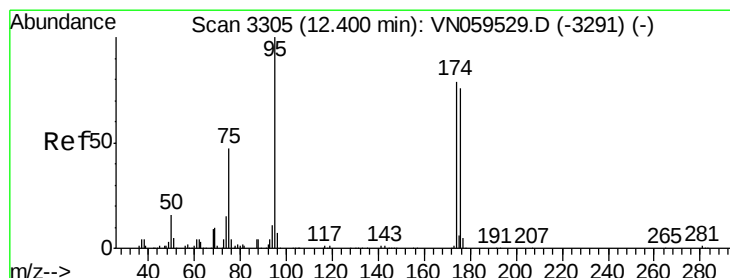
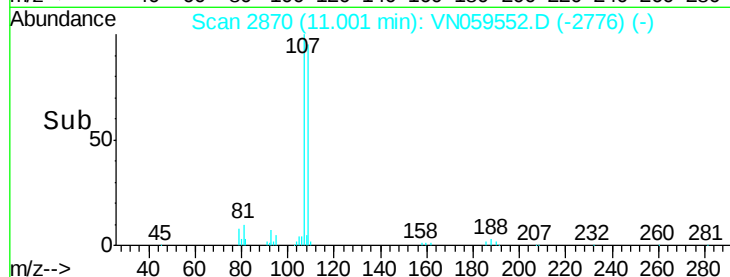
60000

40000

20000

0

Time--> 10.90 11.00 11.10



#62

4-Bromofluorobenzene

Concen: 58.919 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN059552.D

Acq: 10 Dec 2019 17:00

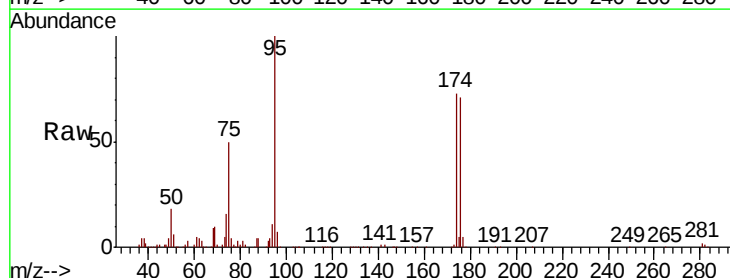
Tgt Ion: 95 Resp: 234272

Ion Ratio Lower Upper

95 100

174 75.2 0.0 158.0

176 72.7 0.0 155.4



Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

12.40

200000

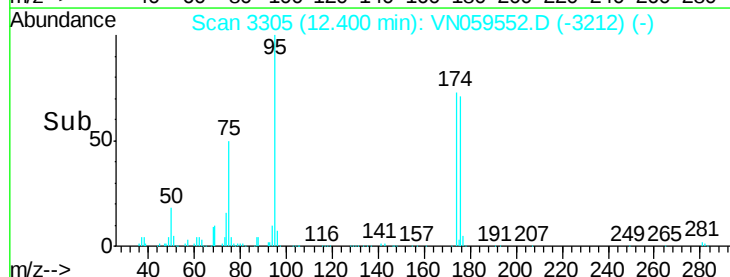
150000

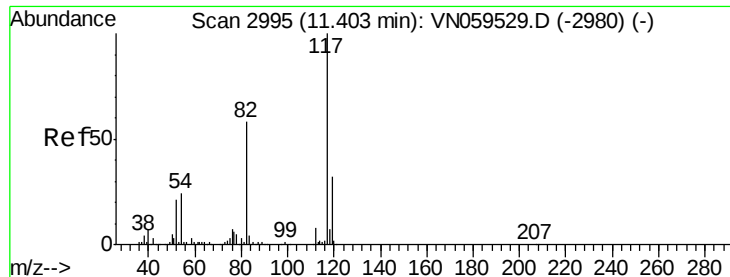
100000

50000

0

Time--> 12.35 12.40 12.45





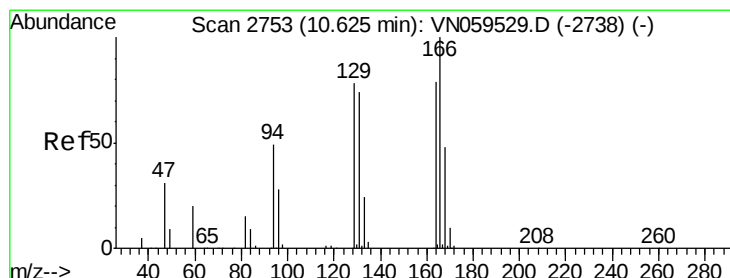
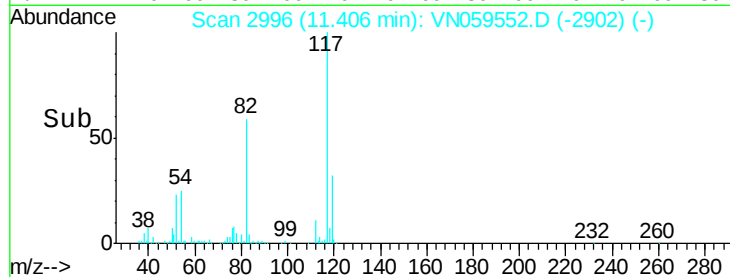
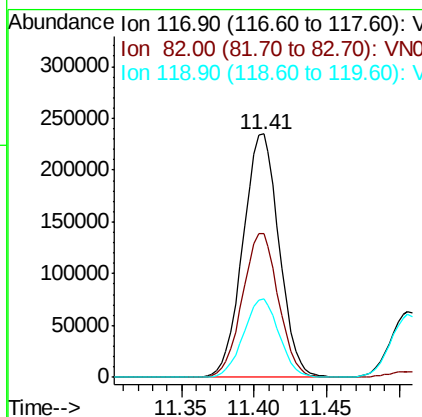
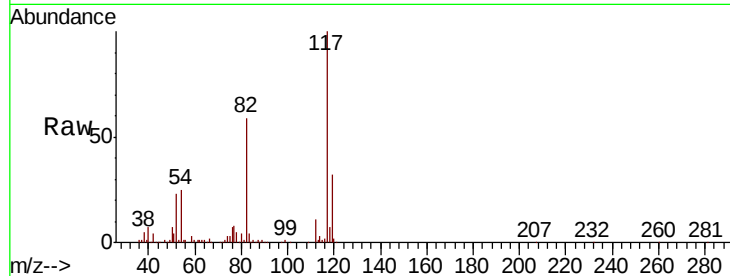
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN059552.D
Acq: 10 Dec 2019 17:00

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
117	100		
82	58.9	46.5	69.7
119	32.0	25.2	37.8

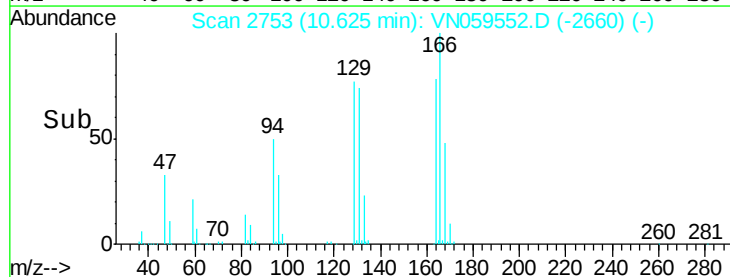
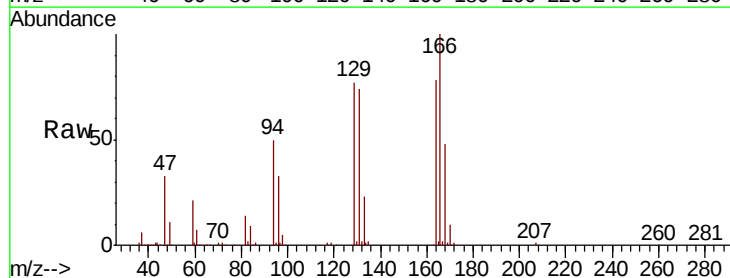
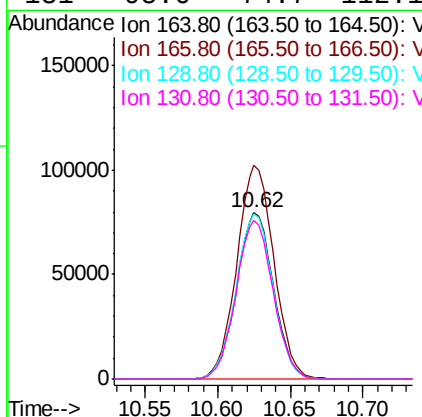
Manual Integrations
APPROVED

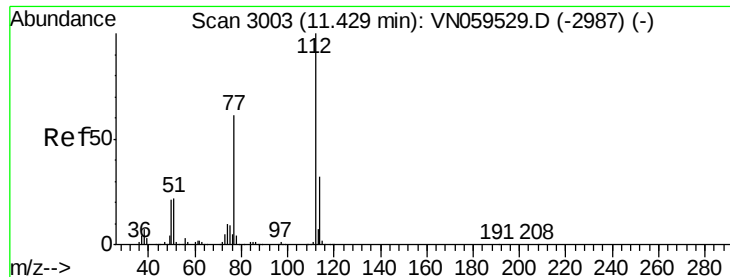
apatel
12/11/2019 2:16:04 PM



#64
Tetrachloroethene
Concen: 47.399 ug/l
RT: 10.62 min Scan# 2753
Delta R.T. -0.00 min
Lab File: VN059552.D
Acq: 10 Dec 2019 17:00

Tgt Ion	Ratio	Lower	Upper
164	100		
166	128.7	101.6	152.4
129	99.6	79.0	118.6
131	95.6	74.7	112.1





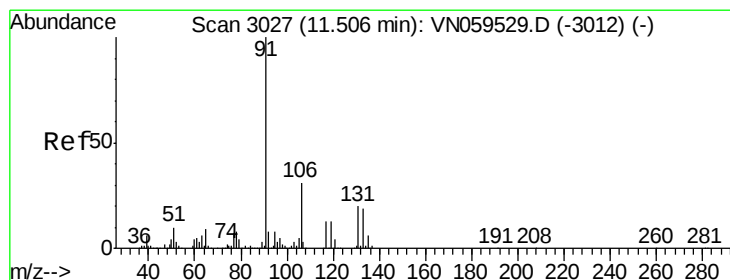
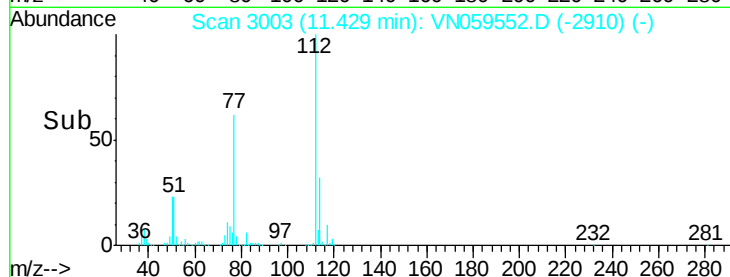
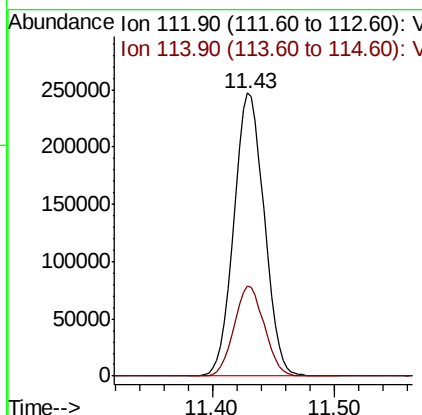
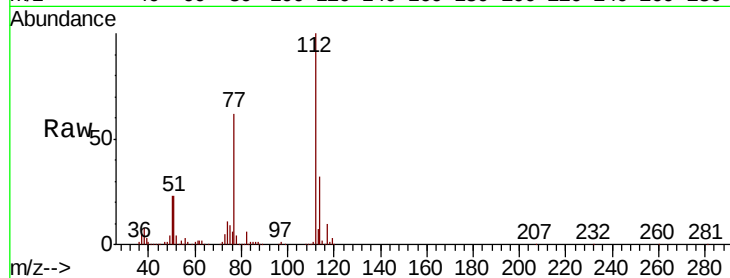
#65
Chlorobenzene
Concen: 49.802 ug/l
RT: 11.43 min Scan# 3003
Delta R.T. -0.00 min
Lab File: VN059552.D
Acq: 10 Dec 2019 17:00

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion:112 Resp: 425789
Ion Ratio Lower Upper
112 100
114 31.8 26.0 39.0

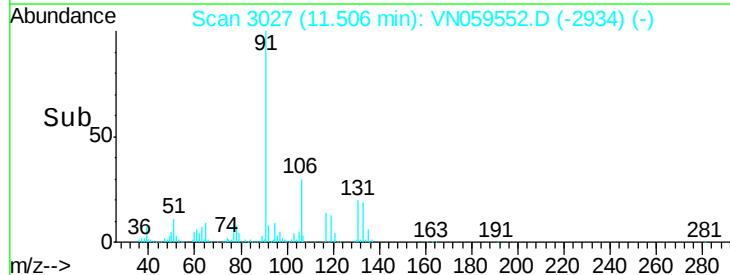
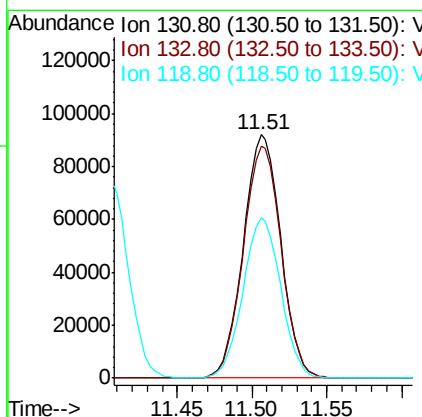
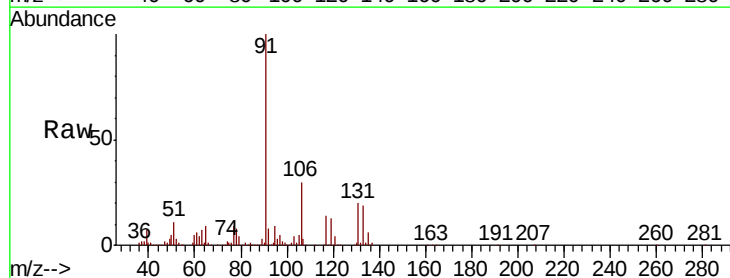
Manual Integrations
APPROVED

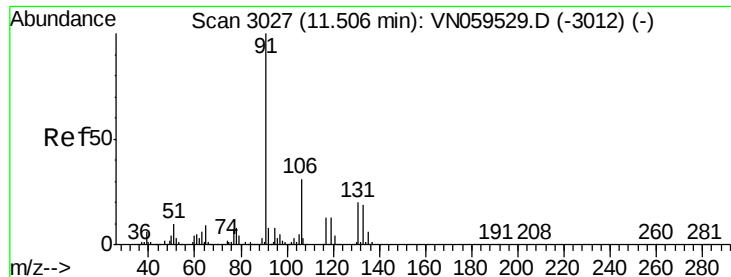
apatel
12/11/2019 2:16:04 PM



#66
1,1,1,2-Tetrachloroethane
Concen: 50.416 ug/l
RT: 11.51 min Scan# 3027
Delta R.T. -0.00 min
Lab File: VN059552.D
Acq: 10 Dec 2019 17:00

Tgt Ion:131 Resp: 160763
Ion Ratio Lower Upper
131 100
133 96.3 47.8 143.3
119 66.3 33.4 100.2





#67

Ethyl Benzene

Concen: 50.930 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. 0.00 min

Lab File: VN059552.D

Acq: 10 Dec 2019 17:00

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 91 Resp: 783566

Ion Ratio Lower Upper

91 100

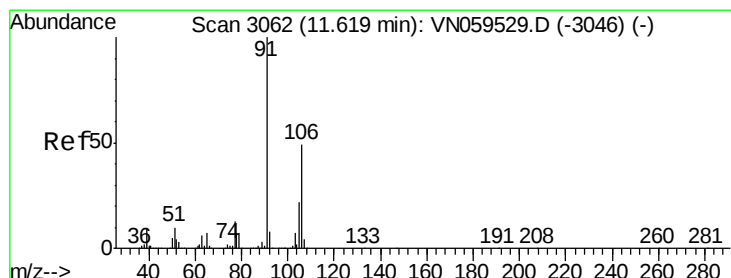
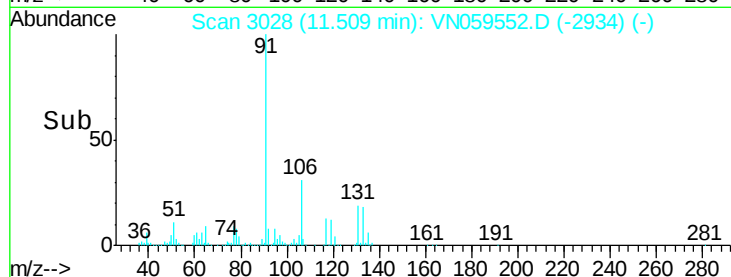
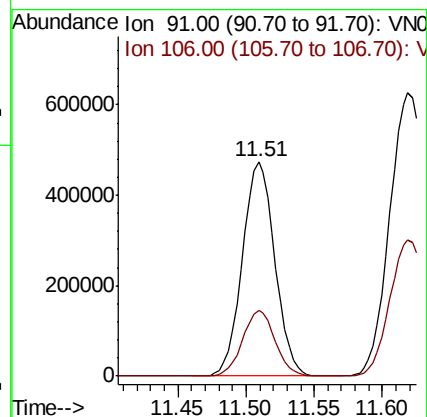
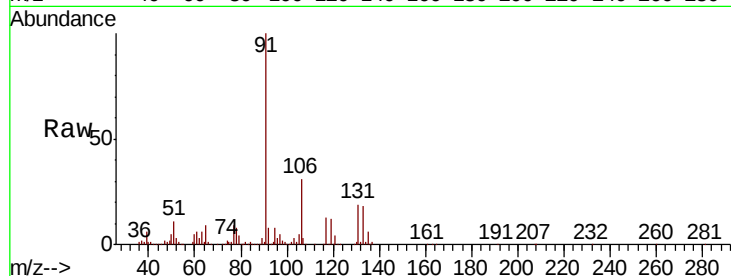
106 30.5 24.5 36.7

Manual Integrations

APPROVED

apatel

12/11/2019 2:16:04 PM



#68

m/p-Xylenes

Concen: 100.787 ug/l

RT: 11.62 min Scan# 3062

Delta R.T. -0.00 min

Lab File: VN059552.D

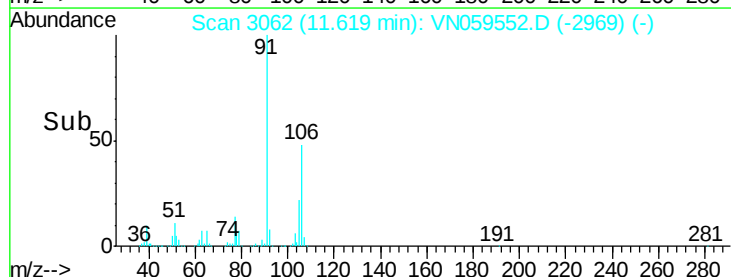
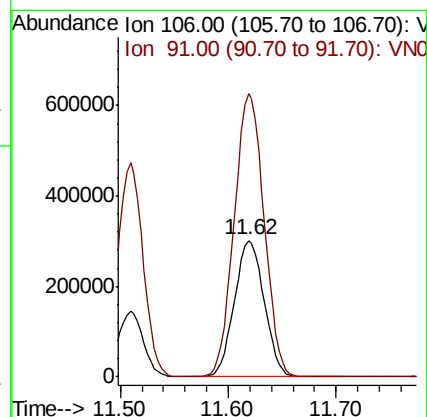
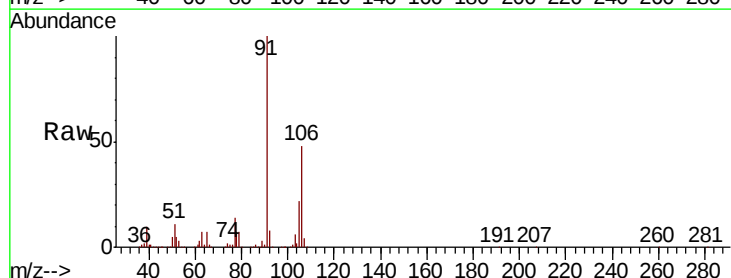
Acq: 10 Dec 2019 17:00

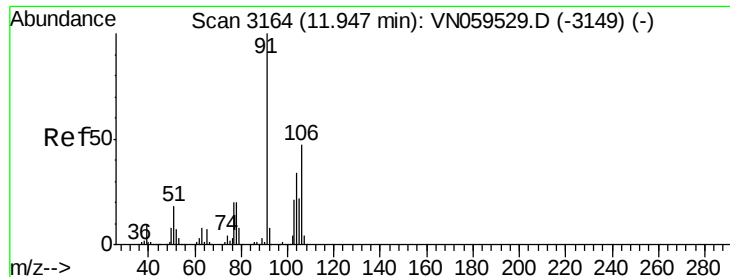
Tgt Ion: 106 Resp: 581683

Ion Ratio Lower Upper

106 100

91 207.8 162.9 244.3





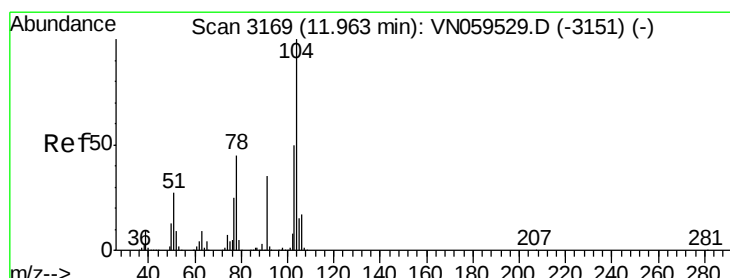
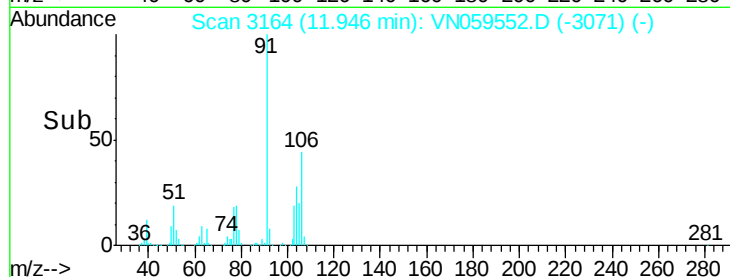
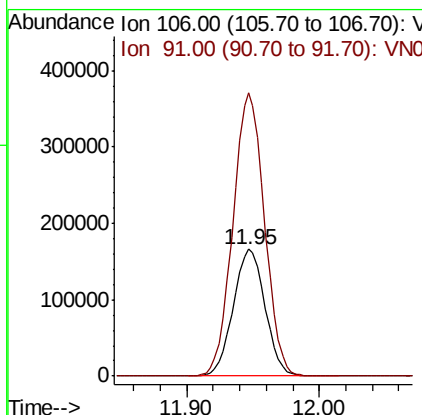
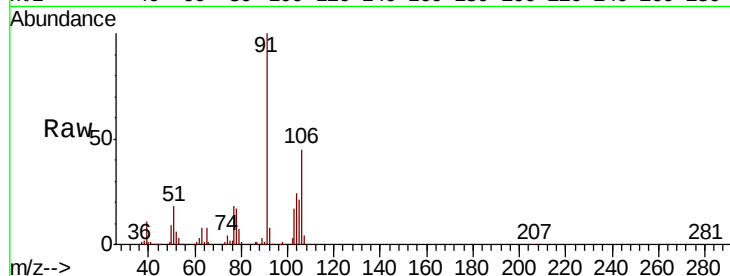
#69
o-Xylene
Concen: 51.369 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. -0.00 min
Lab File: VN059552.D
Acq: 10 Dec 2019 17:00

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion:106 Resp: 275946
Ion Ratio Lower Upper
106 100
91 221.7 106.7 319.9

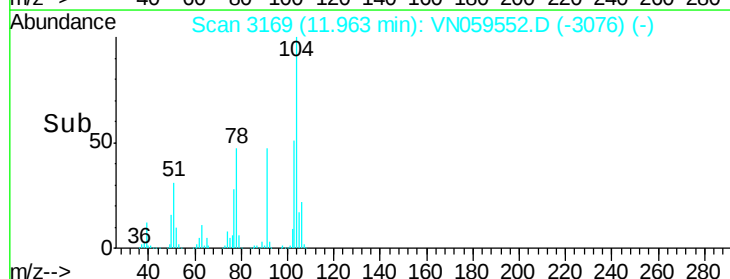
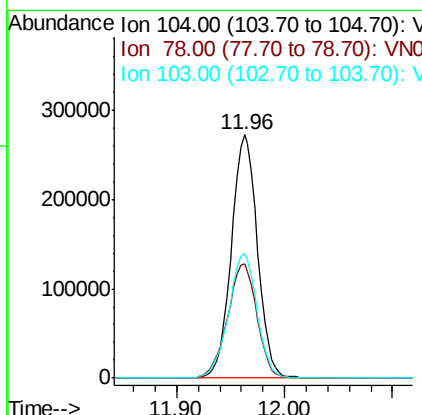
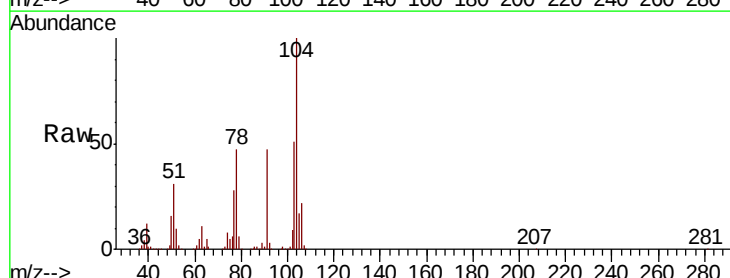
Manual Integrations
APPROVED

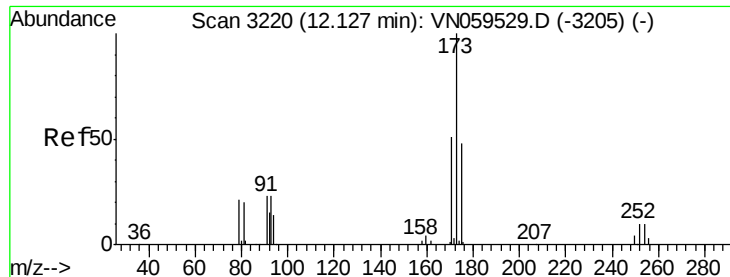
apatel
12/11/2019 2:16:04 PM



#70
Styrene
Concen: 51.391 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. -0.00 min
Lab File: VN059552.D
Acq: 10 Dec 2019 17:00

Tgt Ion:104 Resp: 457358
Ion Ratio Lower Upper
104 100
78 53.2 40.6 60.8
103 55.9 43.9 65.9





#71

Bromoform

Concen: 56.117 ug/l

RT: 12.13 min Scan# 3220

Delta R.T. -0.00 min

Lab File: VN059552.D

Acq: 10 Dec 2019 17:00

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion:173 Resp: 140798

Ion Ratio Lower Upper

173 100

175 48.9 24.1 72.4

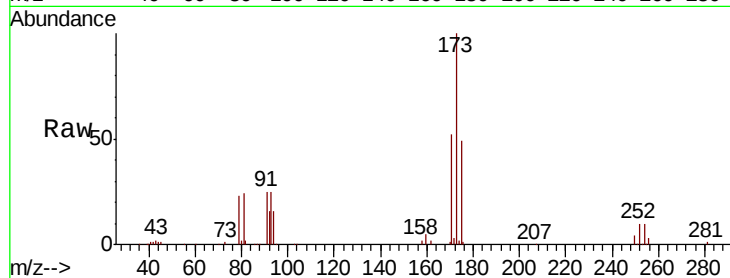
254 0.0 0.0 0.0#

Manual Integrations

APPROVED

apatel

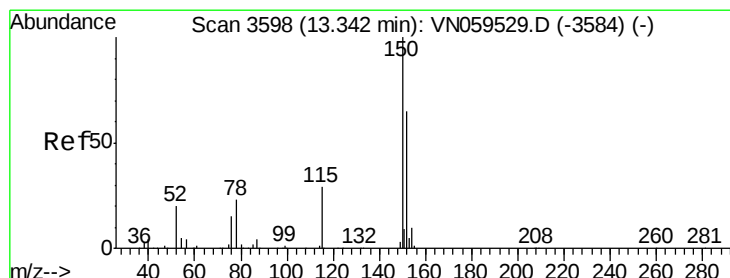
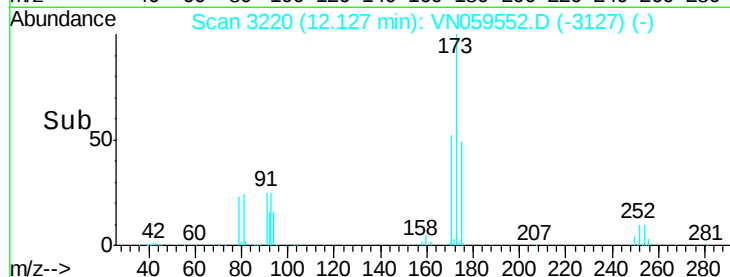
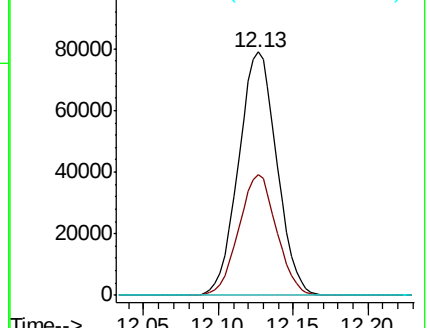
12/11/2019 2:16:04 PM



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN059552.D

Acq: 10 Dec 2019 17:00

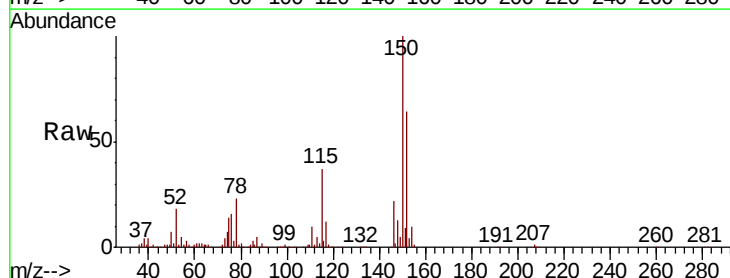
Tgt Ion:152 Resp: 217723

Ion Ratio Lower Upper

152 100

115 58.6 29.4 88.2

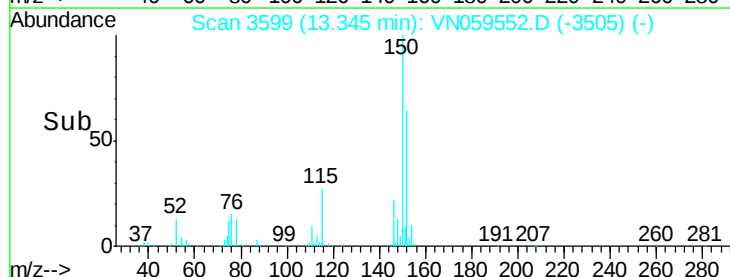
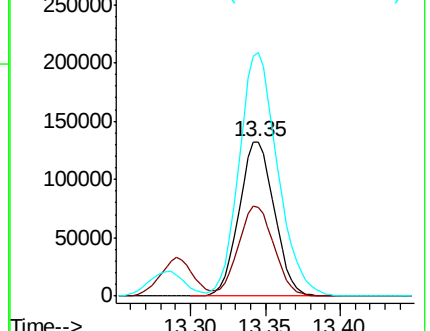
150 171.9 0.0 342.4

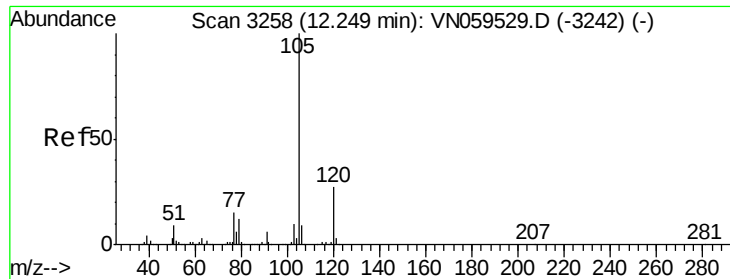


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





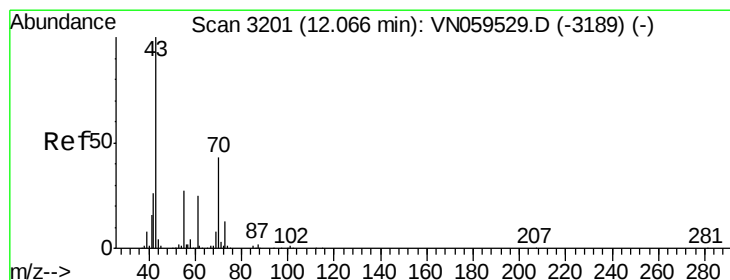
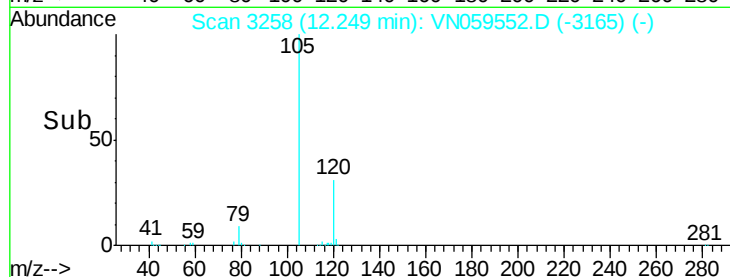
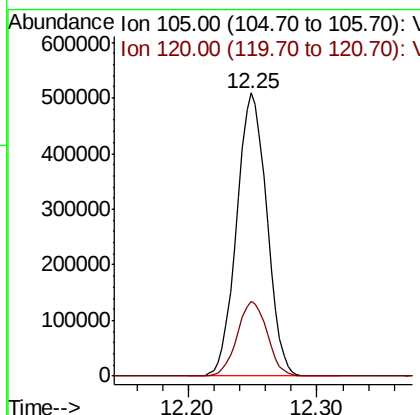
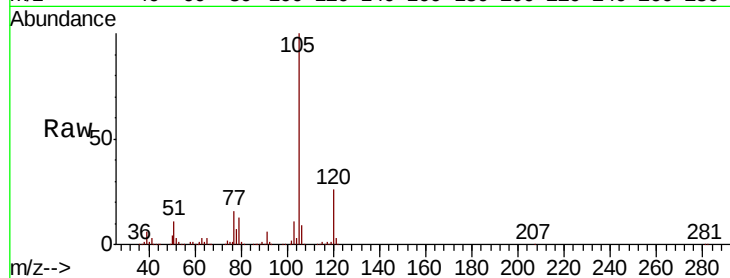
#73
Isopropylbenzene
Concen: 50.618 ug/l
RT: 12.25 min Scan# 3258
Delta R.T. -0.00 min
Lab File: VN059552.D
Acq: 10 Dec 2019 17:00

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
105	100		
120	26.1	13.2	39.5

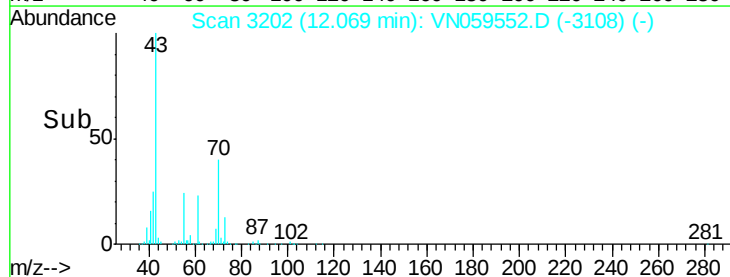
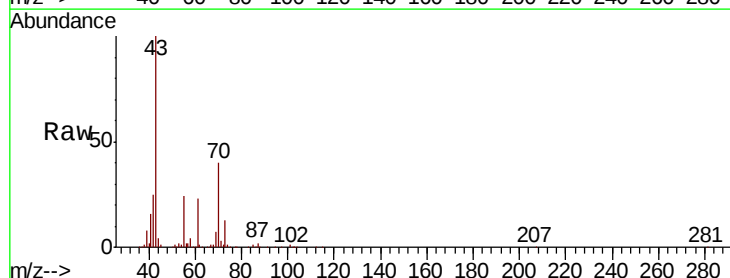
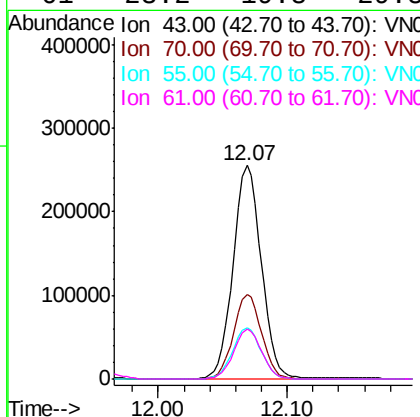
Manual Integrations
APPROVED

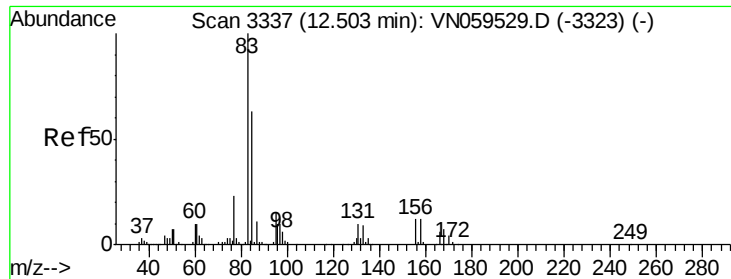
apatel
12/11/2019 2:16:04 PM



#74
N-ethyl acetate
Concen: 54.330 ug/l
RT: 12.07 min Scan# 3202
Delta R.T. 0.00 min
Lab File: VN059552.D
Acq: 10 Dec 2019 17:00

Tgt Ion	Ratio	Lower	Upper
43	100		
70	39.6	34.2	51.4
55	24.7	21.3	31.9
61	23.2	19.8	29.8





#75

1,1,2,2-Tetrachloroethane

Concen: 49.326 ug/l

RT: 12.51 min Scan# 3338

Delta R.T. 0.00 min

Lab File: VN059552.D

Acq: 10 Dec 2019 17:00

Instrument :

MSVOA_N

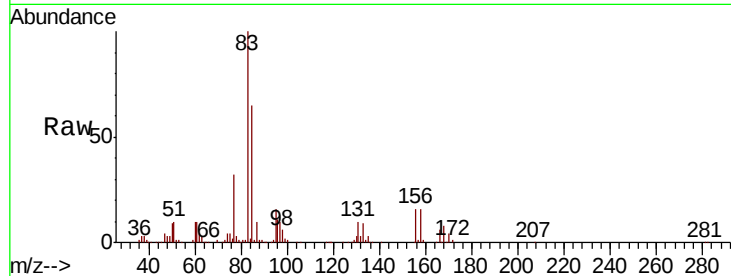
ClientSampleId :

VSTDCCC050EC

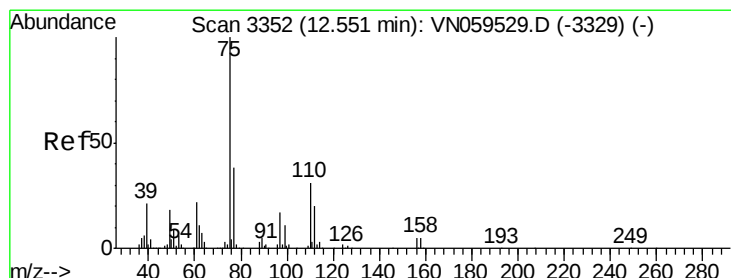
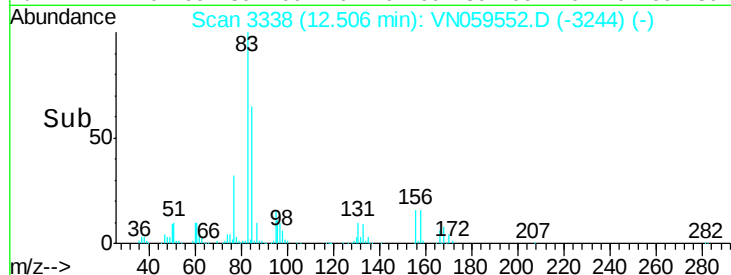
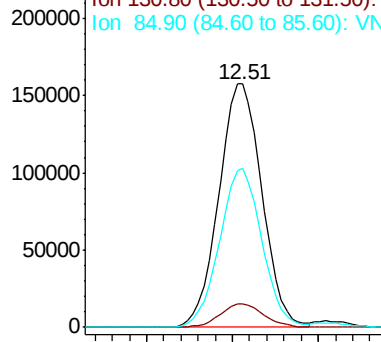
Tot Ion:	83	Resp:	272967
Ion Ratio	Lower	Upper	
83	100		
131	9.8	5.0	14.9
85	64.2	31.6	95.0

Manual Integrations
APPROVED

apatel
12/11/2019 2:16:04 PM



Abundance Ion 82.90 (82.60 to 83.60): VN059552.D (-3244) (-)



#76

1,2,3-Trichloropropane

Concen: 53.199 ug/l m

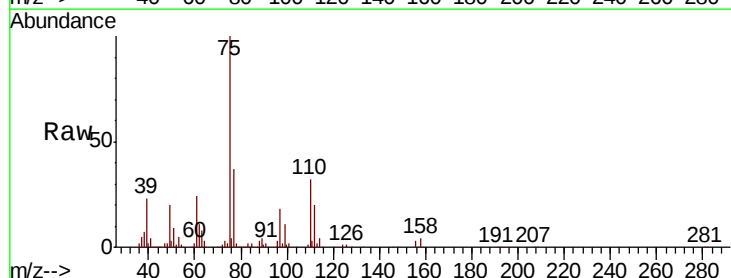
RT: 12.55 min Scan# 3353

Delta R.T. 0.00 min

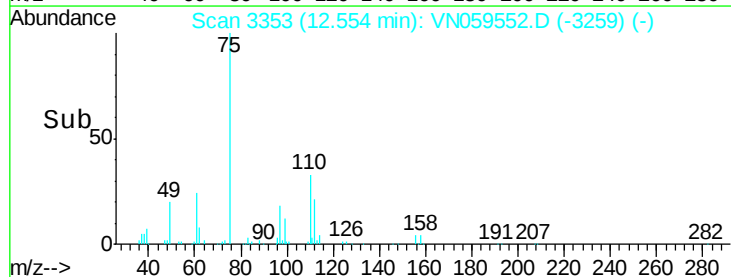
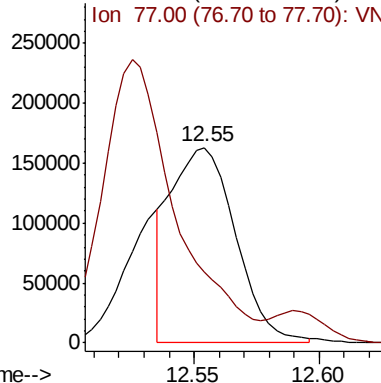
Lab File: VN059552.D

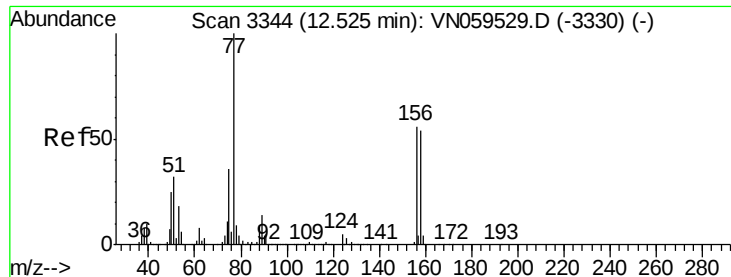
Acq: 10 Dec 2019 17:00

Tgt Ion:	75	Resp:	296197
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0



Abundance Ion 74.90 (74.60 to 75.60): VN059552.D (-3259) (-)





#77

Bromobenzene

Concen: 52.973 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. -0.00 min

Lab File: VN059552.D

Acq: 10 Dec 2019 17:00

Instrument :

MSVOA_N

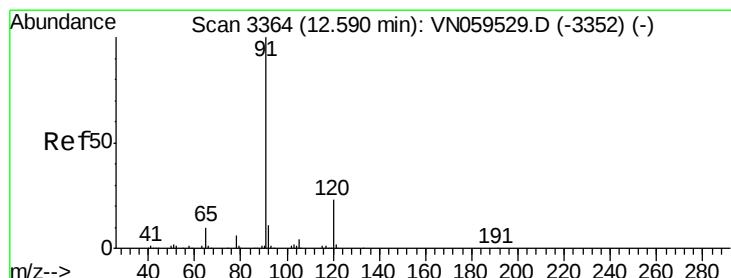
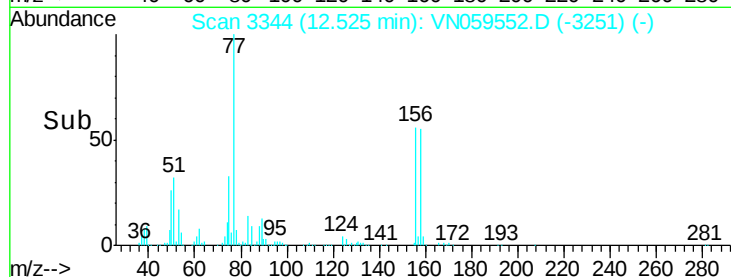
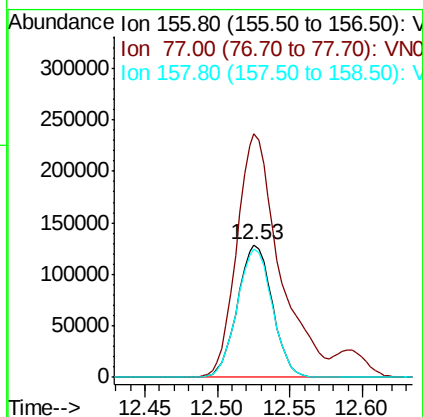
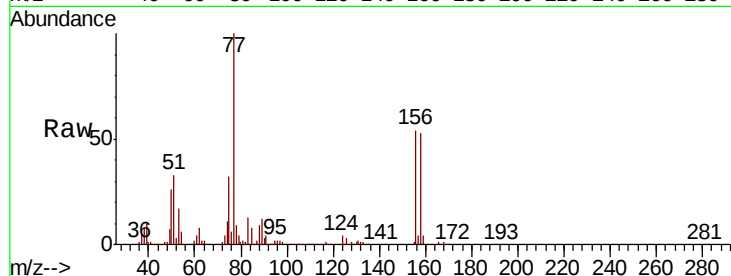
ClientSampleId :

VSTDCCC050EC

Tot Ion:	156	Resp:	215382
Ion Ratio	Lower	Upper	
156	100		
77	225.5	109.3	327.8
158	97.6	48.6	145.8

Manual Integrations
APPROVED

apatel
12/11/2019 2:16:04 PM



#78

n-propylbenzene

Concen: 53.515 ug/l

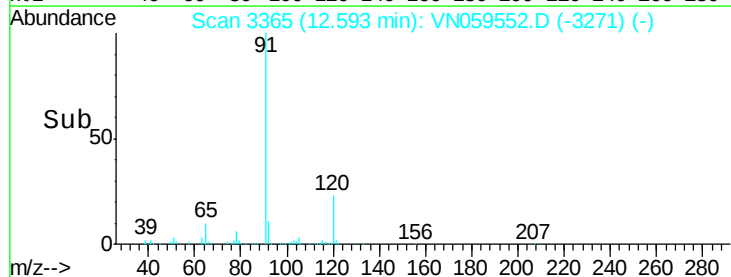
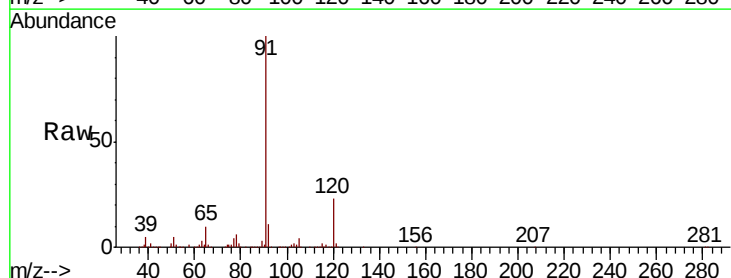
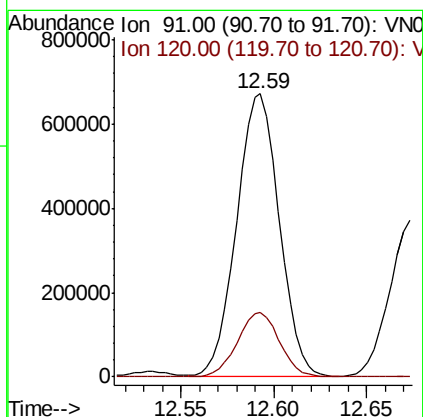
RT: 12.59 min Scan# 3365

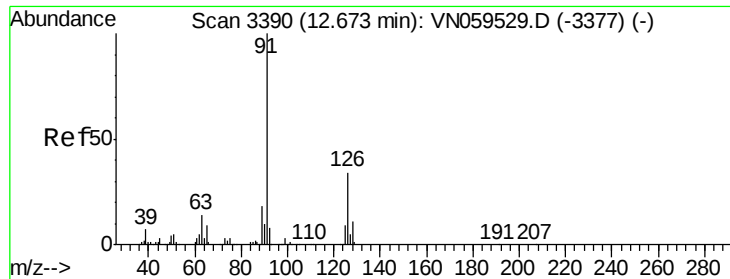
Delta R.T. 0.00 min

Lab File: VN059552.D

Acq: 10 Dec 2019 17:00

Tgt Ion:	91	Resp:	1073983
Ion Ratio	Lower	Upper	
91	100		
120	22.4	11.4	34.1





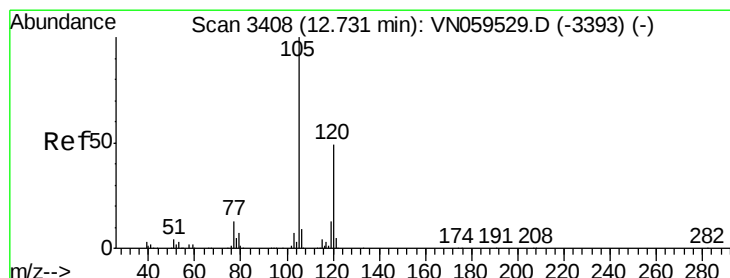
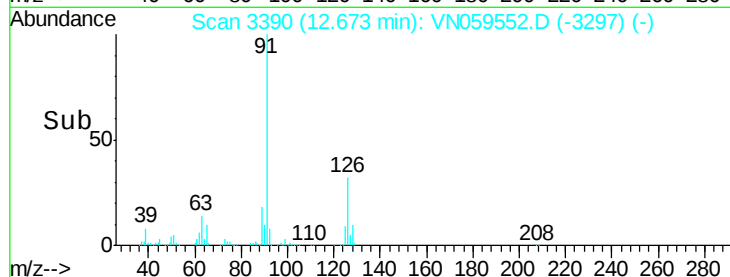
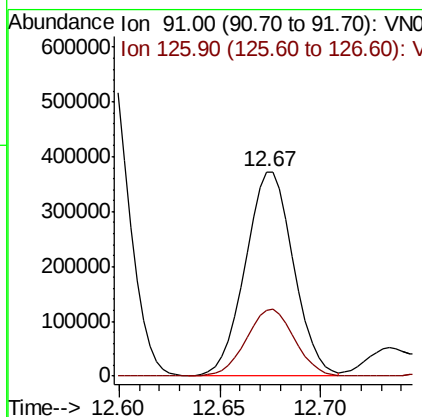
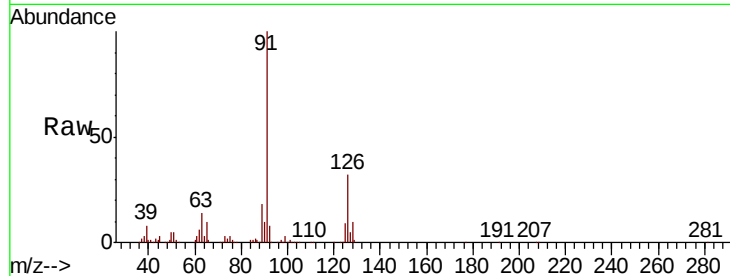
#79
2-Chlorotoluene
Concen: 52.048 ug/l
RT: 12.67 min Scan# 3390
Delta R.T. -0.00 min
Lab File: VN059552.D
Acq: 10 Dec 2019 17:00

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion: 91 Resp: 622854
Ion Ratio Lower Upper
91 100
126 32.9 16.9 50.7

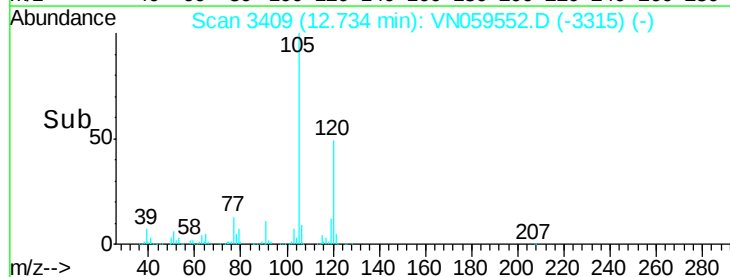
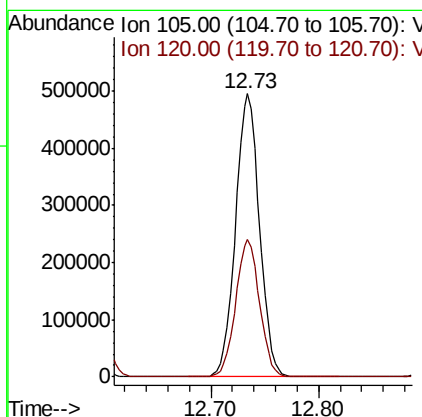
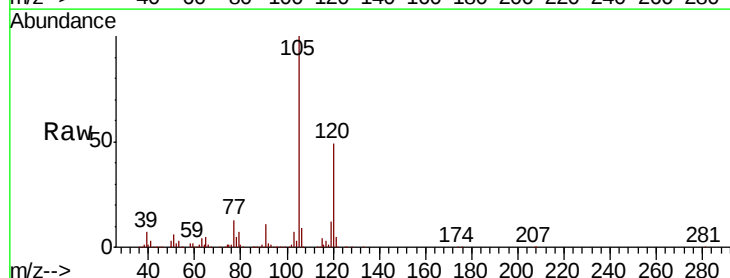
Manual Integrations
APPROVED

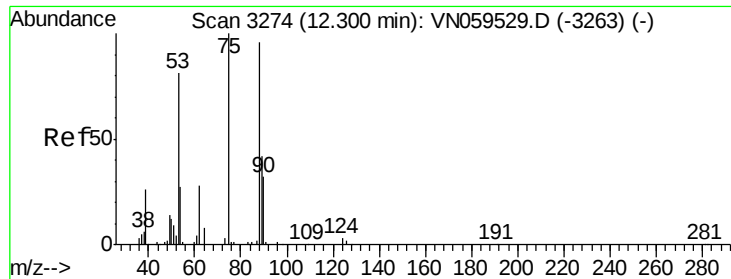
apatel
12/11/2019 2:16:04 PM



#80
1,3,5-Trimethylbenzene
Concen: 54.569 ug/l
RT: 12.73 min Scan# 3409
Delta R.T. 0.00 min
Lab File: VN059552.D
Acq: 10 Dec 2019 17:00

Tgt Ion: 105 Resp: 764225
Ion Ratio Lower Upper
105 100
120 48.4 24.5 73.5





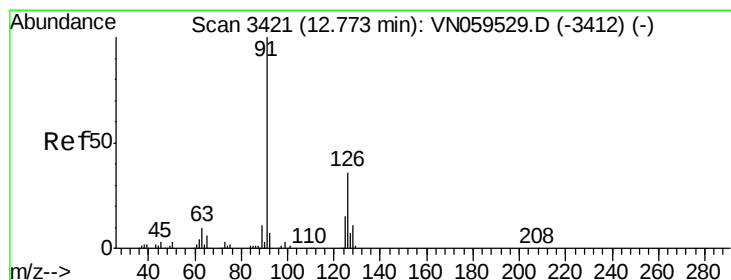
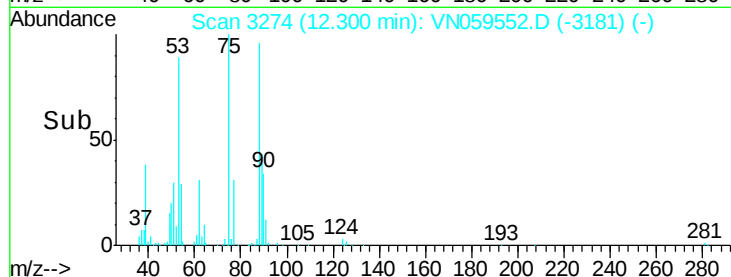
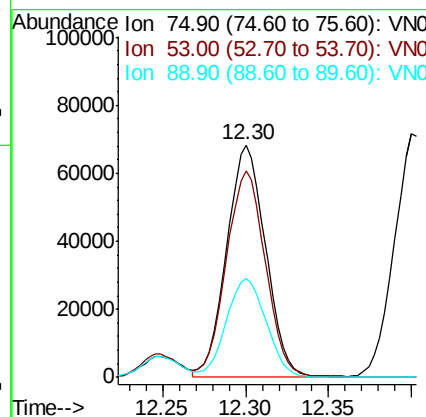
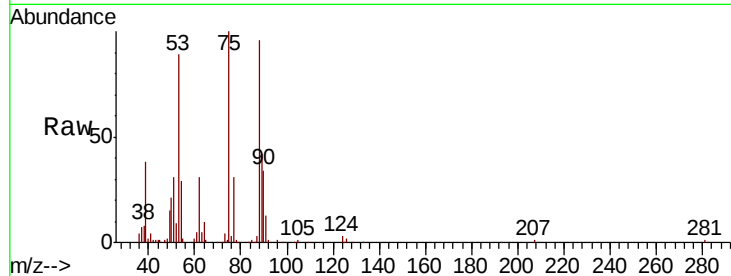
#81
trans-1,4-Dichloro-2-butene
Concen: 54.052 ug/l
RT: 12.30 min Scan# 3274
Delta R.T. -0.00 min
Lab File: VN059552.D
Acq: 10 Dec 2019 17:00

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
75	100		
53	88.5	67.0	100.6
89	43.5	35.5	53.3

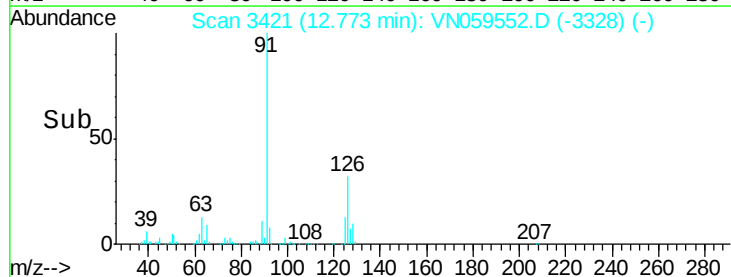
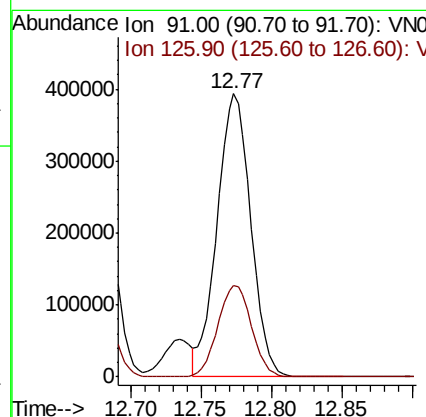
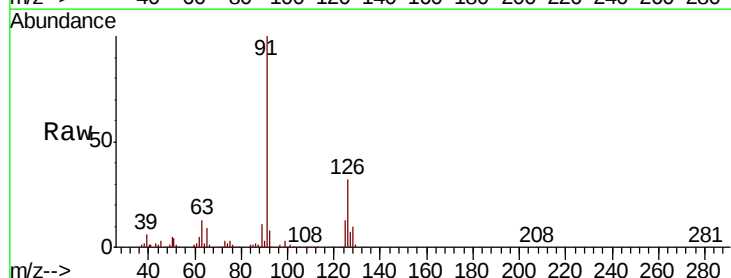
Manual Integrations
APPROVED

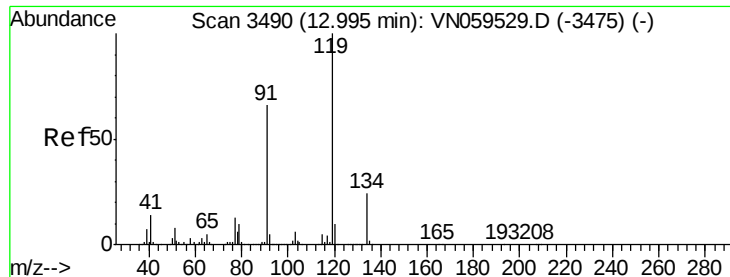
apatel
12/11/2019 2:16:04 PM



#82
4-Chlorotoluene
Concen: 53.228 ug/l
RT: 12.77 min Scan# 3421
Delta R.T. -0.00 min
Lab File: VN059552.D
Acq: 10 Dec 2019 17:00

Tgt Ion	Ratio	Lower	Upper
91	100		
126	32.3	16.4	49.4





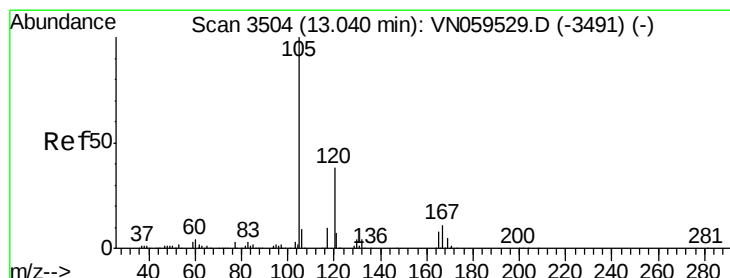
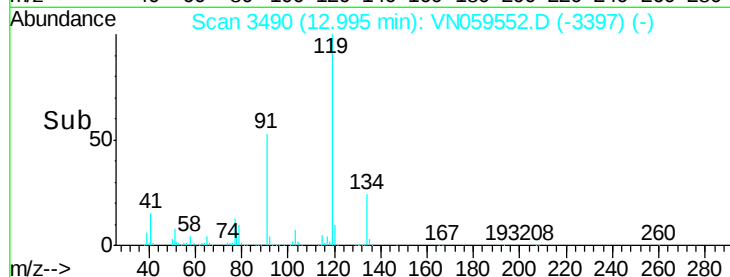
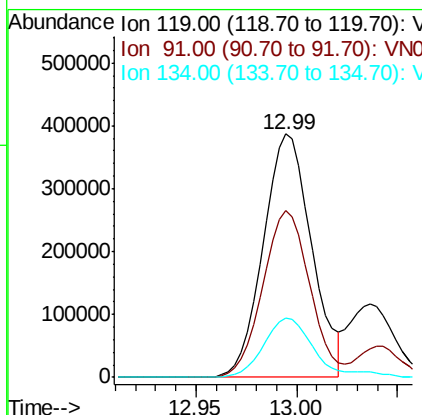
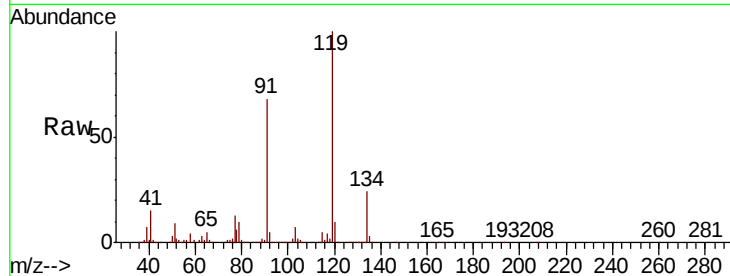
#83
tert-Butylbenzene
Concen: 55.201 ug/l
RT: 12.99 min Scan# 3490
Delta R.T. -0.00 min
Lab File: VN059552.D
Acq: 10 Dec 2019 17:00

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
119	100		
91	66.8	32.8	98.4
134	24.3	12.8	38.3

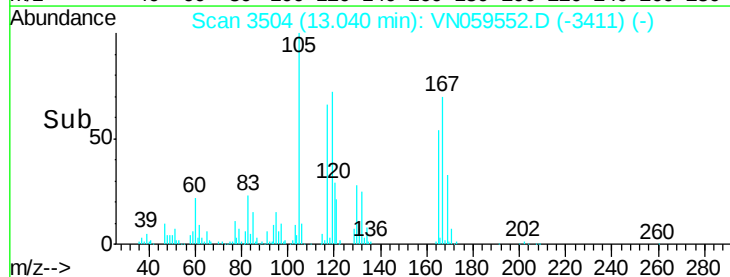
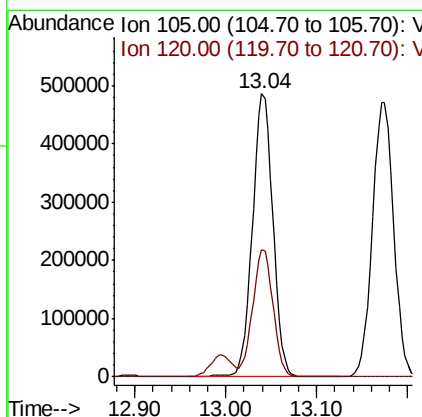
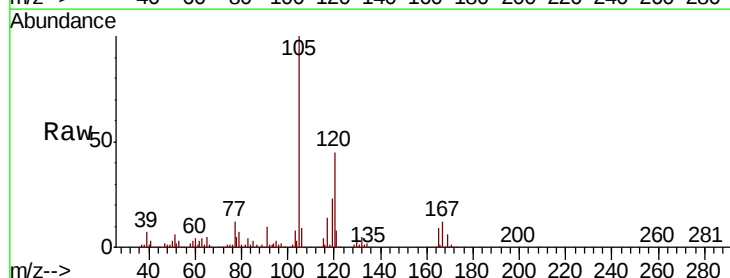
Manual Integrations
APPROVED

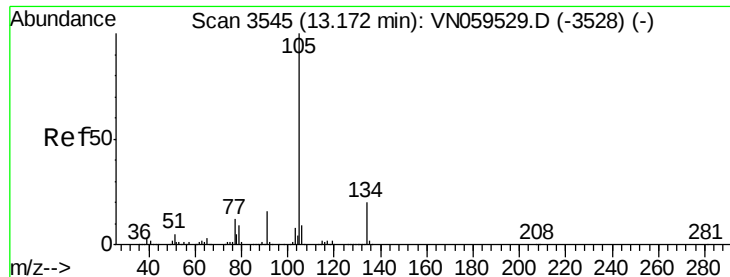
apatel
12/11/2019 2:16:04 PM



#84
1,2,4-Trimethylbenzene
Concen: 54.824 ug/l
RT: 13.04 min Scan# 3504
Delta R.T. -0.00 min
Lab File: VN059552.D
Acq: 10 Dec 2019 17:00

Tgt Ion	Ratio	Lower	Upper
105	100		
120	44.7	22.8	68.3





#85

sec-Butylbenzene

Concen: 47.450 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. -0.00 min

Lab File: VN059552.D

Acq: 10 Dec 2019 17:00

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion:105 Resp: 761156

Ion Ratio Lower Upper

105 100

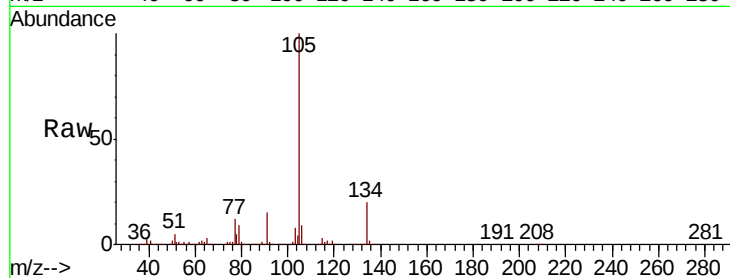
134 19.8 9.8 29.5

Manual Integrations

APPROVED

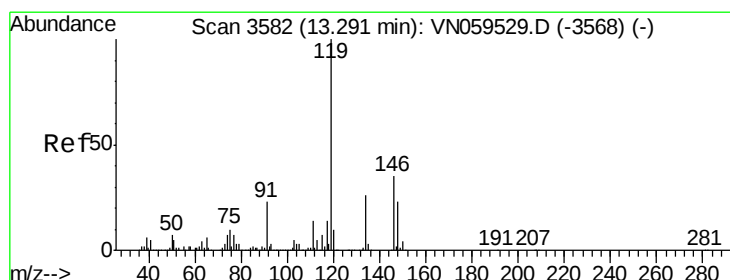
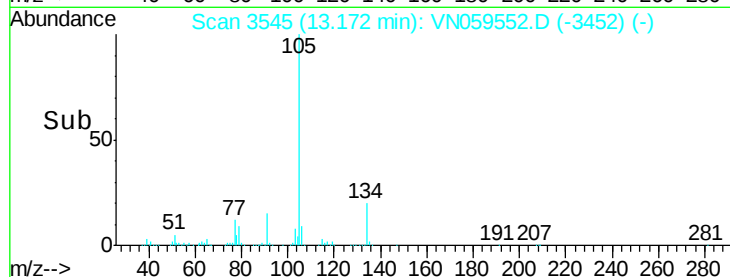
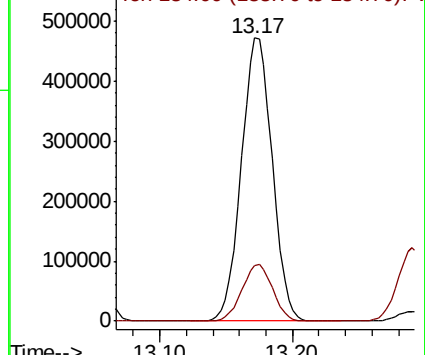
apatel

12/11/2019 2:16:04 PM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 49.293 ug/l

RT: 13.29 min Scan# 3582

Delta R.T. -0.00 min

Lab File: VN059552.D

Acq: 10 Dec 2019 17:00

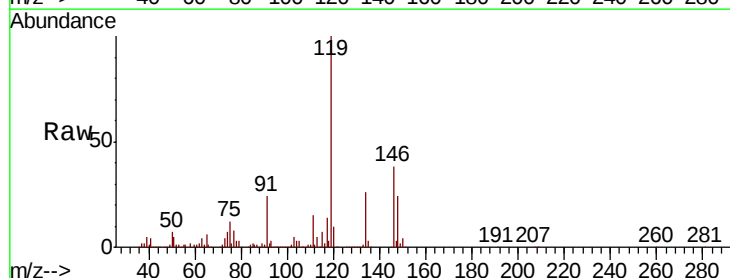
Tgt Ion:119 Resp: 706710

Ion Ratio Lower Upper

119 100

134 26.4 13.0 39.0

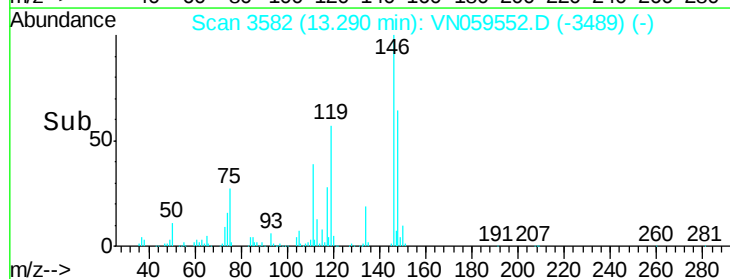
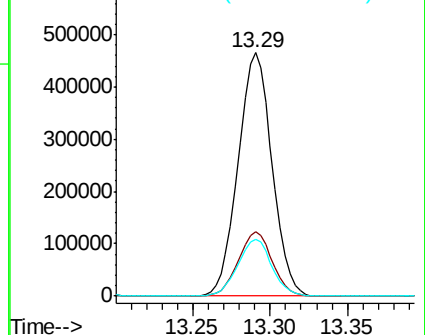
91 23.5 11.7 35.1

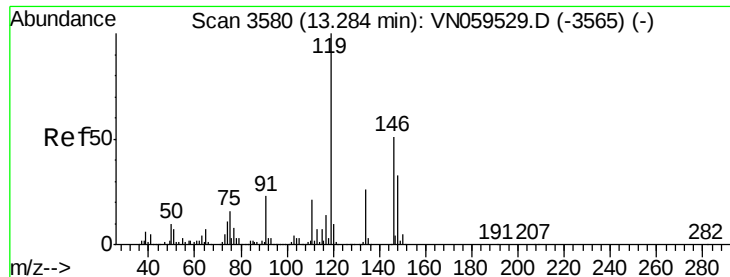


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V





#87

1,3-Dichlorobenzene

Concen: 46.914 ug/l

RT: 13.28 min Scan# 3580

Delta R.T. -0.00 min

Lab File: VN059552.D

Acq: 10 Dec 2019 17:00

Instrument :

MSVOA_N

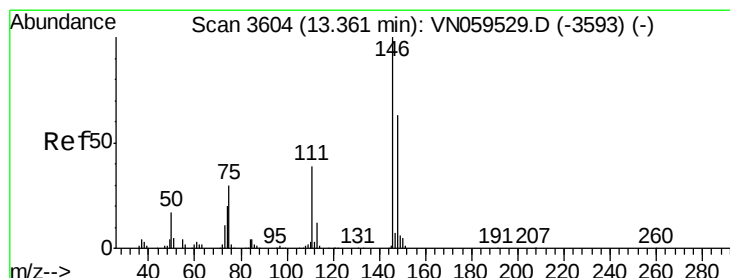
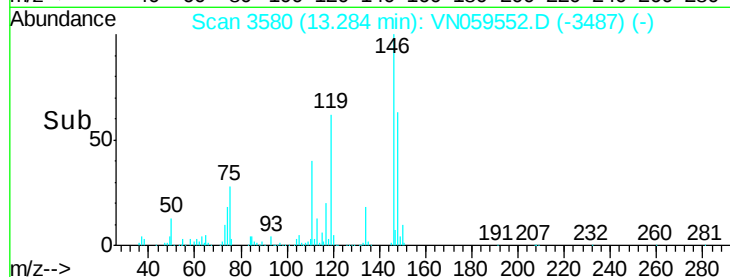
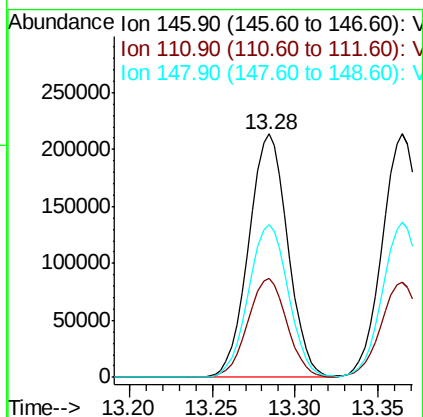
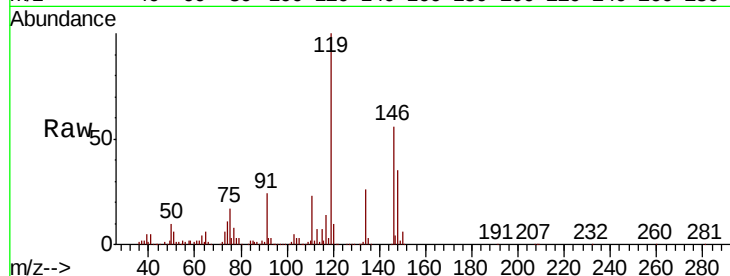
ClientSampleId :

VSTDCCC050EC

Tot Ion:	146	Resp:	351332
Ion Ratio	Lower	Upper	
146	100		
111	40.7	20.6	61.8
148	64.2	32.0	96.0

Manual Integrations
APPROVED

apatel
12/11/2019 2:16:04 PM



#88

1,4-Dichlorobenzene

Concen: 47.965 ug/l

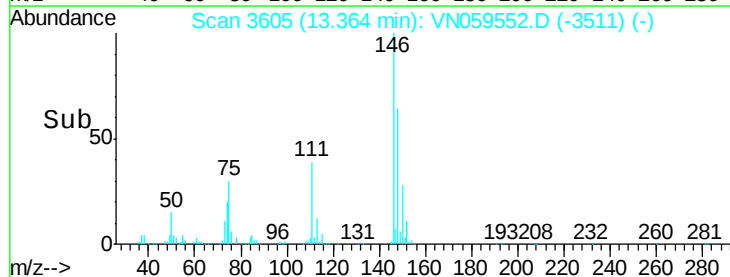
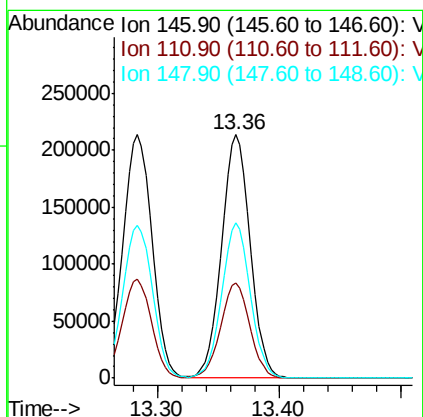
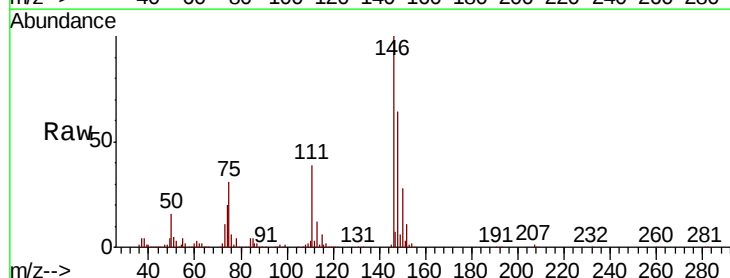
RT: 13.36 min Scan# 3605

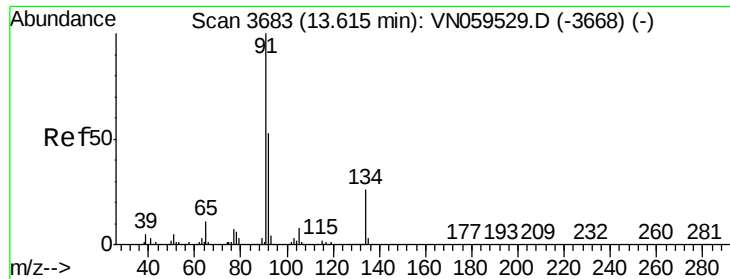
Delta R.T. 0.00 min

Lab File: VN059552.D

Acq: 10 Dec 2019 17:00

Tgt Ion:	146	Resp:	351717
Ion Ratio	Lower	Upper	
146	100		
111	39.7	20.0	59.9
148	63.6	31.9	95.7





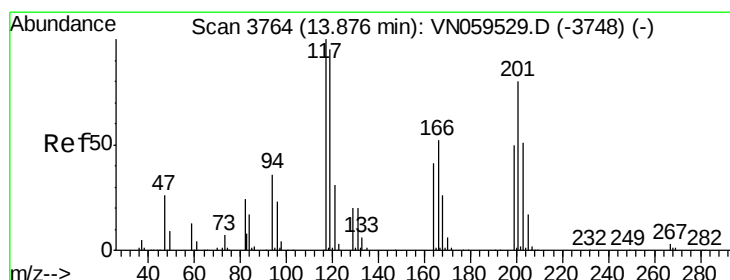
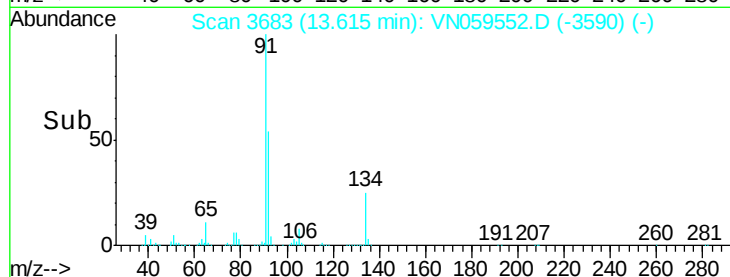
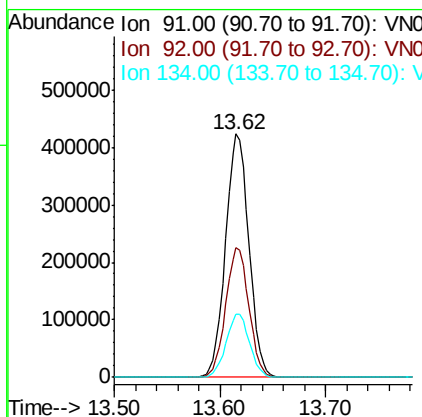
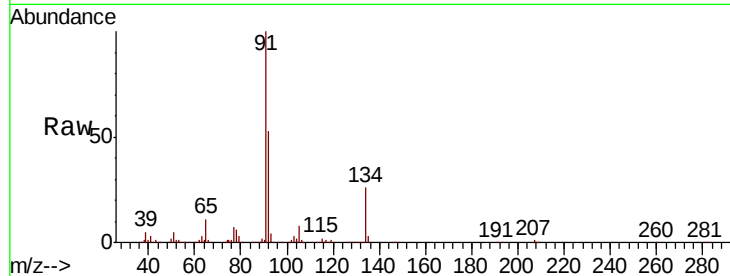
#89
n-Butylbenzene
Concen: 48.151 ug/l
RT: 13.62 min Scan# 3683
Delta R.T. -0.00 min
Lab File: VN059552.D
Acq: 10 Dec 2019 17:00

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ion	Ratio	Lower	Upper
91	100			
92	52.7	26.3	78.9	
134	25.8	12.8	38.4	

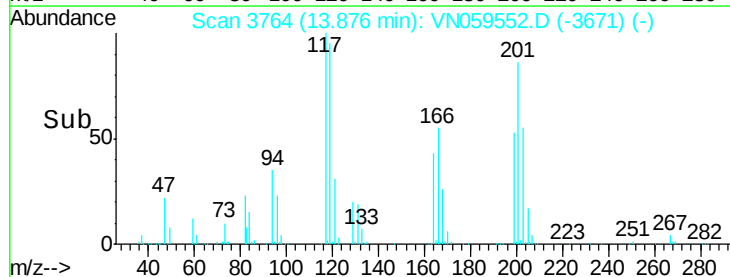
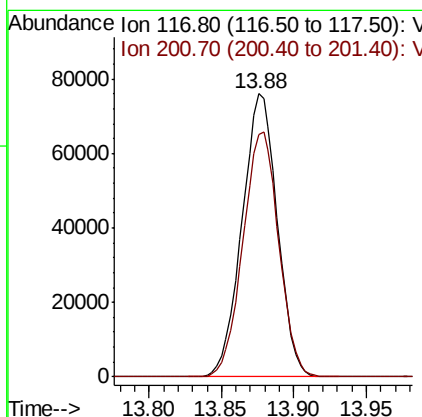
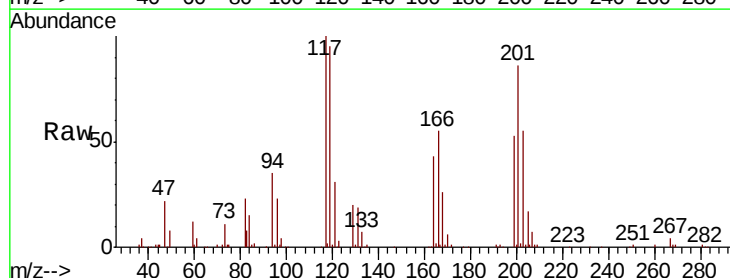
Manual Integrations
APPROVED

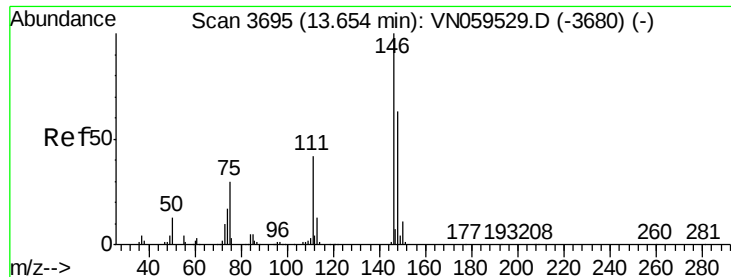
apatel
12/11/2019 2:16:04 PM



#90
Hexachloroethane
Concen: 48.988 ug/l
RT: 13.88 min Scan# 3764
Delta R.T. -0.00 min
Lab File: VN059552.D
Acq: 10 Dec 2019 17:00

Tgt Ion	Ion	Ratio	Lower	Upper
117	100			
201	87.4	40.5	121.5	





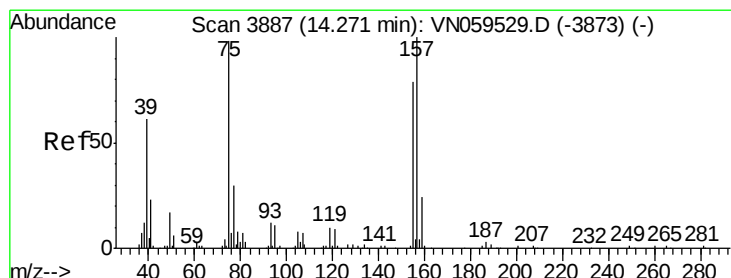
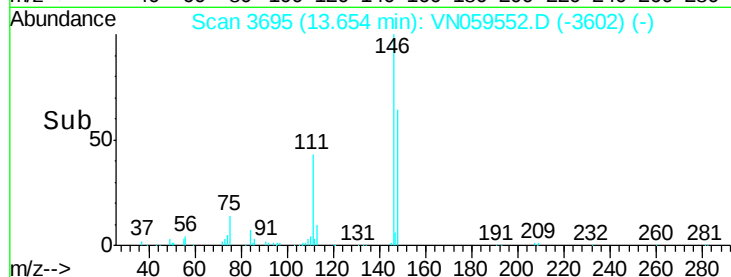
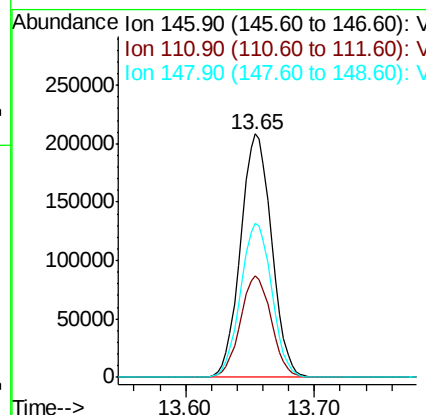
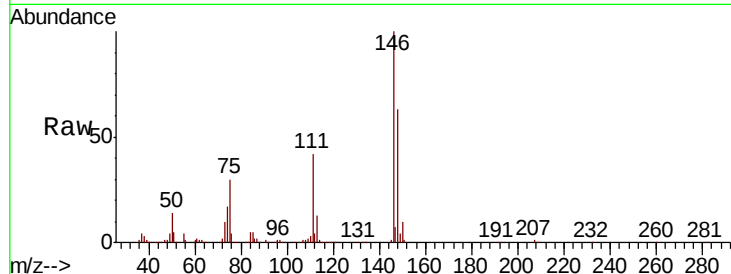
#91
 1,2-Dichlorobenzene
 Concen: 49.632 ug/l
 RT: 13.65 min Scan# 3695
 Delta R.T. -0.00 min
 Lab File: VN059552.D
 Acq: 10 Dec 2019 17:00

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
146	100		
111	41.7	20.9	62.7
148	63.8	31.6	94.8

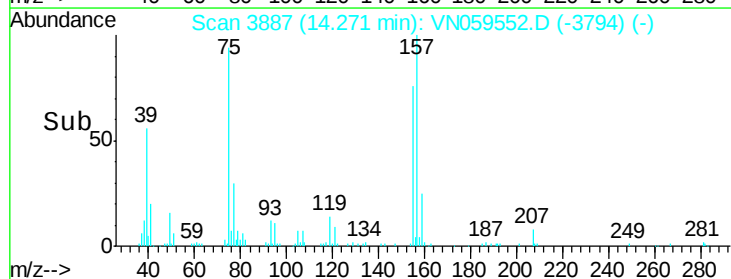
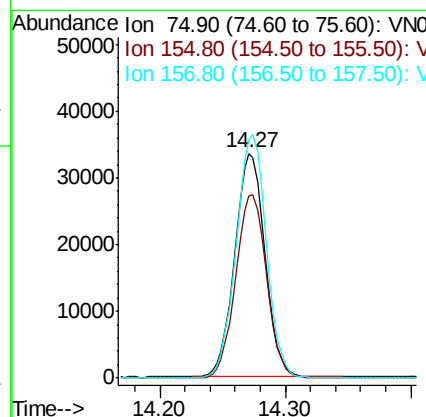
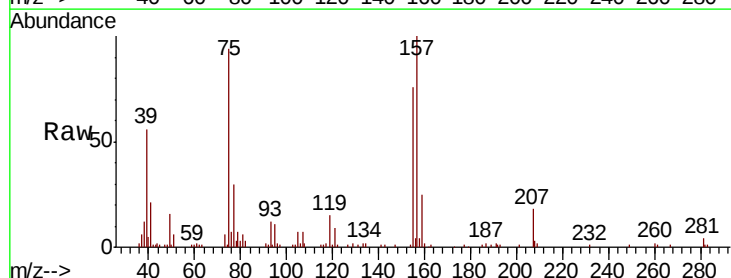
Manual Integrations
 APPROVED

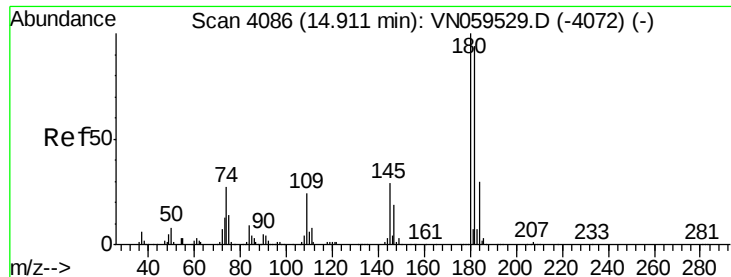
apatel
 12/11/2019 2:16:04 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 44.536 ug/l
 RT: 14.27 min Scan# 3887
 Delta R.T. 0.00 min
 Lab File: VN059552.D
 Acq: 10 Dec 2019 17:00

Tgt Ion	Ratio	Lower	Upper
75	100		
155	83.6	40.4	121.1
157	108.7	51.1	153.3





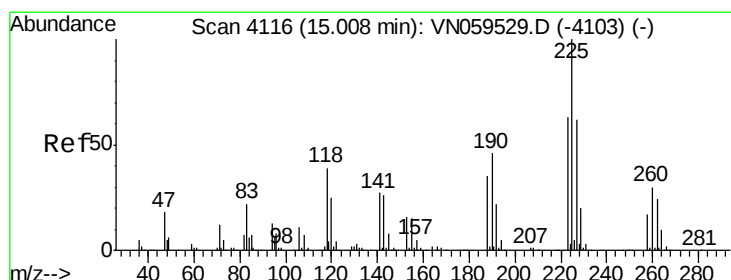
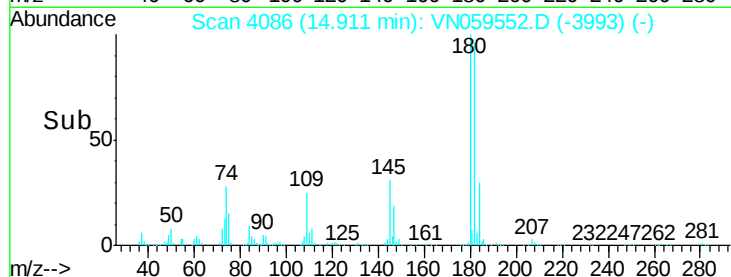
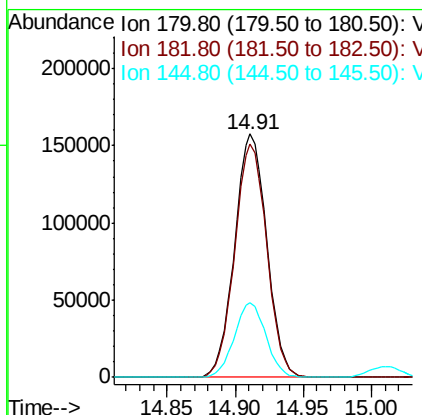
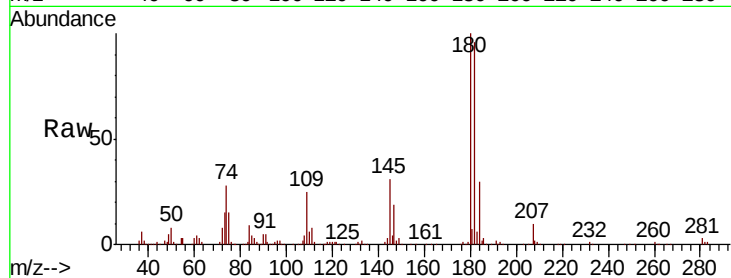
#93
 1,2,4-Trichlorobenzene
 Concen: 52.964 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. -0.00 min
 Lab File: VN059552.D
 Acq: 10 Dec 2019 17:00

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.8	47.3	142.0
145	30.3	14.9	44.7

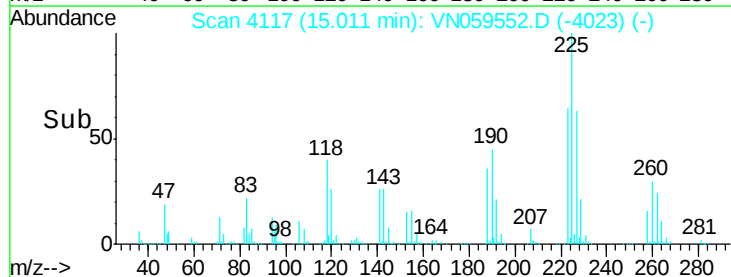
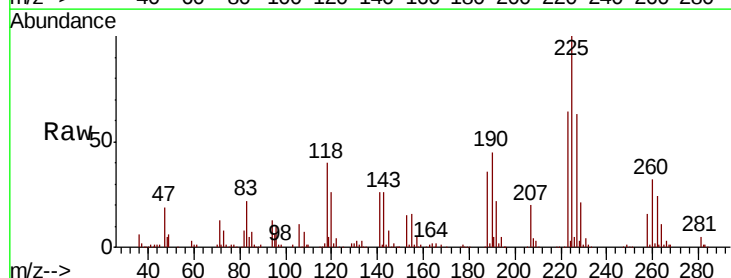
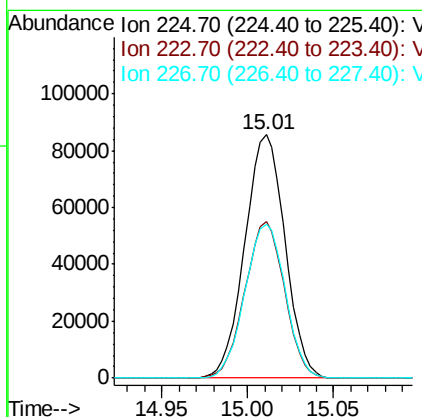
Manual Integrations
 APPROVED

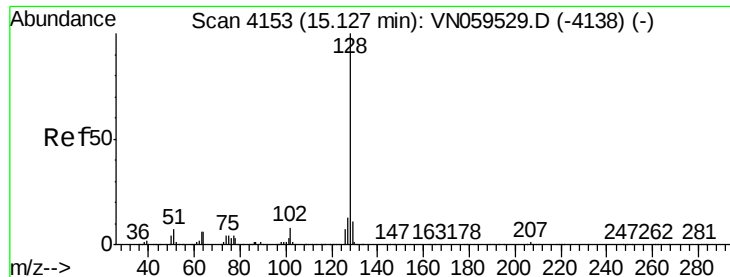
apatel
 12/11/2019 2:16:04 PM



#94
 Hexachlorobutadiene
 Concen: 55.906 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. 0.00 min
 Lab File: VN059552.D
 Acq: 10 Dec 2019 17:00

Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.4	31.3	93.9
227	63.4	31.6	95.0





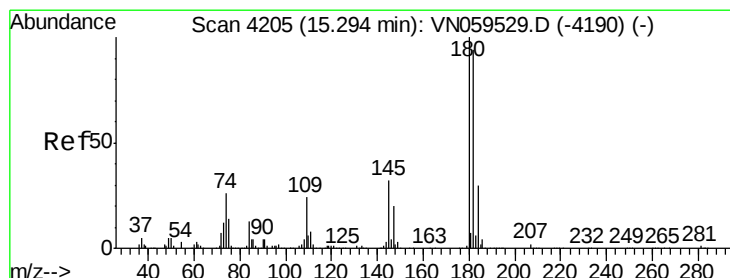
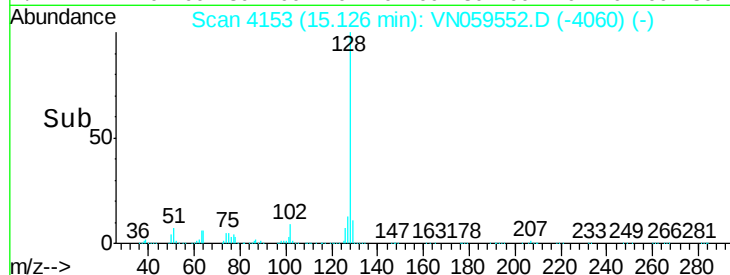
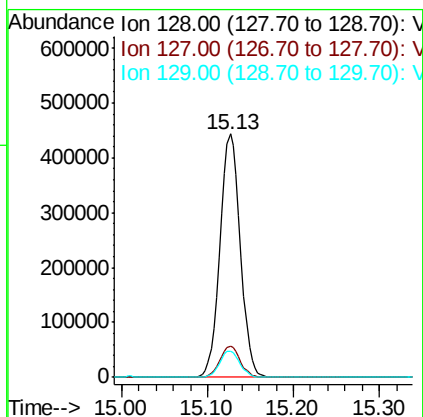
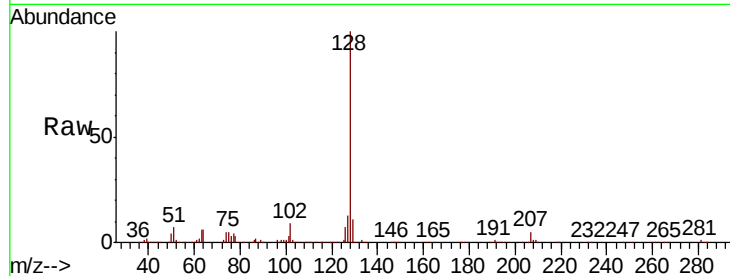
#95
Naphthalene
Concen: 51.240 ug/l
RT: 15.13 min Scan# 4153
Delta R.T. 0.00 min
Lab File: VN059552.D
Acq: 10 Dec 2019 17:00

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.2	15.4
129	10.8	8.6	13.0

Manual Integrations
APPROVED

apatel
12/11/2019 2:16:04 PM



#96
1,2,3-Trichlorobenzene
Concen: 51.105 ug/l
RT: 15.29 min Scan# 4205
Delta R.T. 0.00 min
Lab File: VN059552.D
Acq: 10 Dec 2019 17:00

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.2	47.1	141.4
145	31.6	15.8	47.4

