

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN121218\
 Data File : VN052821.D
 Acq On : 12 Dec 2018 12:29
 Operator : MD\SY
 Sample : VN1212WBSD01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 6 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleID :
 VN1212WBSD01

Manual Integrations
 APPROVED

MMDadoda
 12/13/2018 1:29:27 PM

Quant Time: Dec 13 04:00:48 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N112618W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Nov 27 00:48:33 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	154247	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	888540	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	778996	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	306937	29.20	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	97.33%
60) 4-Bromofluorobenzene	12.40	95	361067	30.32	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	101.07%
63) Toluene-d8	10.09	98	1055172	29.21	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	97.37%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	155314	17.680	ug/l 98
3) Chloromethane	2.06	50	206627	17.735	ug/l 99
4) Vinyl Chloride	2.19	62	217984	18.538	ug/l 98
5) Bromomethane	2.58	94	130888	19.522	ug/l 98
6) Chloroethane	2.71	64	133177	19.045	ug/l 100
7) Trichlorofluoromethane	3.03	101	279934	19.289	ug/l 99
8) Diethyl Ether	3.42	74	108978	20.337	ug/l 94
9) 1,1,2-Trichlorotrifluoroet	3.77	101	177945	19.343	ug/l 97
10) 1,1-Dichloroethene	3.74	96	170028	19.657	ug/l 97
11) Methyl Iodide	3.96	142	221863	18.474	ug/l 99
12) Methyl Acetate	4.33	43	151227	20.577	ug/l 99
13) Acrolein	3.61	56	61105	70.780	ug/l 100
14) Acrylonitrile	4.99	53	324258	103.548	ug/l 98
15) Acetone	3.82	58	76620	94.478	ug/l 98
16) Carbon Disulfide	4.06	76	472139	17.241	ug/l 100
17) Allyl chloride	4.33	41	287344	19.048	ug/l 99
18) Methylene Chloride	4.56	84	199531	19.923	ug/l 95
19) trans-1,2-Dichloroethene	5.05	96	179591	19.293	ug/l 96
20) Diisopropyl ether	5.95	45	621111	19.593	ug/l 99
21) 1,1-Dichloroethane	5.85	63	358520	19.843	ug/l 97
22) cis-1,2-Dichloroethene	6.83	96	214632	20.118	ug/l 98
23) tert-Butyl Alcohol	4.78	59	54241m	116.438	ug/l
24) Methyl tert-Butyl Ether	5.05	73	482893	21.280	ug/l 97
25) Chloroform	7.37	83	347979	19.963	ug/l 98
26) Cyclohexane	7.65	56	312620	18.345	ug/l # 99
29) 1,1-Dichloropropene	7.80	75	266589	19.647	ug/l 99
30) 2-Butanone	6.83	43	373661	102.914	ug/l 99
31) 2,2-Dichloropropane	6.83	77	257736	20.632	ug/l 99
32) 1,1,1-Trichloroethane	7.57	97	291773	20.666	ug/l 98
33) Carbon Tetrachloride	7.78	117	247602	20.043	ug/l 99
34) Benzene	8.04	78	814950	19.976	ug/l 99
35) Methacrylonitrile	7.18	41	99831	22.161	ug/l 98
36) 1,2-Dichloroethane	8.13	62	249411	20.175	ug/l 99
37) Trichloroethene	8.84	130	213451	20.634	ug/l 95
38) Methylcyclohexane	9.08	83	306166	18.227	ug/l 98
39) 1,2-Dichloropropane	9.12	63	217835	19.920	ug/l 98
40) Dibromomethane	9.21	93	123565	20.910	ug/l 97

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 Misc : 5.00mL/MSVOA N/WATER
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Manual Integrations
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 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N112618W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Nov 27 00:48:33 2018
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	265812	20.359	ug/l	98
42) Vinyl Acetate	5.90	43	1889859	96.200	ug/l	98
43) Ethyl Acetate	6.93	43	161365	20.901	ug/l #	69
44) Isopropyl Acetate	8.17	43	306381	22.627	ug/l #	82
45) 1,4-Dioxane	9.20	88	34026	459.349	ug/l	94
46) Methyl methacrylate	9.20	41	149542	21.271	ug/l	97
47) n-amyl Acetate	12.07	43	245039	21.826	ug/l	99
48) t-1,3-Dichloropropene	10.38	75	256082	20.228	ug/l	99
49) cis-1,3-Dichloropropene	9.84	75	304992	19.774	ug/l	97
50) 1,1,2-Trichloroethane	10.56	97	177386	21.176	ug/l	98
51) Ethyl methacrylate	10.43	69	228721	21.740	ug/l	96
52) 1,3-Dichloropropane	10.71	76	304927	20.451	ug/l	100
53) Dibromochloromethane	10.90	129	193173	20.946	ug/l	99
54) 1,2-Dibromoethane	11.01	107	173727	21.224	ug/l	98
55) 2-Chloroethyl vinyl ether	9.70	63	645267	104.780	ug/l	99
56) Bromoform	12.13	173	128192	21.266	ug/l	99
58) 4-Methyl-2-Pentanone	9.99	43	824368	109.157	ug/l	99
59) 2-Hexanone	10.75	43	557347	108.034	ug/l	98
61) Tetrachloroethene	10.63	164	224573	23.407	ug/l	97
62) Toluene	10.16	91	863024	20.097	ug/l	99
64) Chlorobenzene	11.43	112	538166	20.532	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.51	131	190452	20.933	ug/l	99
66) Ethyl Benzene	11.51	91	920098	19.880	ug/l	99
67) m/p-Xylenes	11.62	106	702745	40.755	ug/l	98
68) o-Xylene	11.95	106	344461	20.582	ug/l	99
69) Styrene	11.96	104	550172	20.367	ug/l	99
70) Isopropylbenzene	12.25	105	912608	20.494	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.50	83	206661	21.335	ug/l	98
72) 1,2,3-Trichloropropane	12.55	75	174133m	20.941	ug/l	
73) Bromobenzene	12.53	156	227873	21.159	ug/l	96
74) n-propylbenzene	12.59	91	1037721	20.001	ug/l	99
75) 2-Chlorotoluene	12.67	91	615989	20.454	ug/l	99
76) 1,3,5-Trimethylbenzene	12.73	105	729347	20.278	ug/l	99
77) t-1,4-Dichloro-2-butene	12.30	75	52331	19.922	ug/l	97
78) 4-Chlorotoluene	12.77	91	615874	20.478	ug/l	98
79) tert-butylbenzene	12.99	119	653052	20.849	ug/l	98
80) 1,2,4-Trimethylbenzene	13.04	105	741218	20.596	ug/l	99
81) sec-Butylbenzene	13.17	105	886337	20.315	ug/l	100
82) p-Isopropyltoluene	13.29	119	754967	20.322	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	396801	20.949	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	390060	21.314	ug/l	98
85) n-Butylbenzene	13.62	91	603635	18.916	ug/l	99
86) Hexachloroethane	13.87	117	123312	19.590	ug/l	96
87) 1,2-Dichlorobenzene	13.65	146	387616	21.504	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	30573	22.532	ug/l	96
89) 1,2,4-Trichlorobenzene	14.91	180	200317	22.557	ug/l	99
90) Hexachlorobutadiene	15.01	225	124059	21.296	ug/l	98
91) Naphthalene	15.13	128	413819	23.075	ug/l	99
92) 1,2,3-Trichlorobenzene	15.31	180	188075	22.981	ug/l	98

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Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 6 Sample Multiplier: 28

Instrument :
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ClientSampleId :
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Manual Integrations
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QLast Update : Tue Nov 27 00:48:33 2018
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

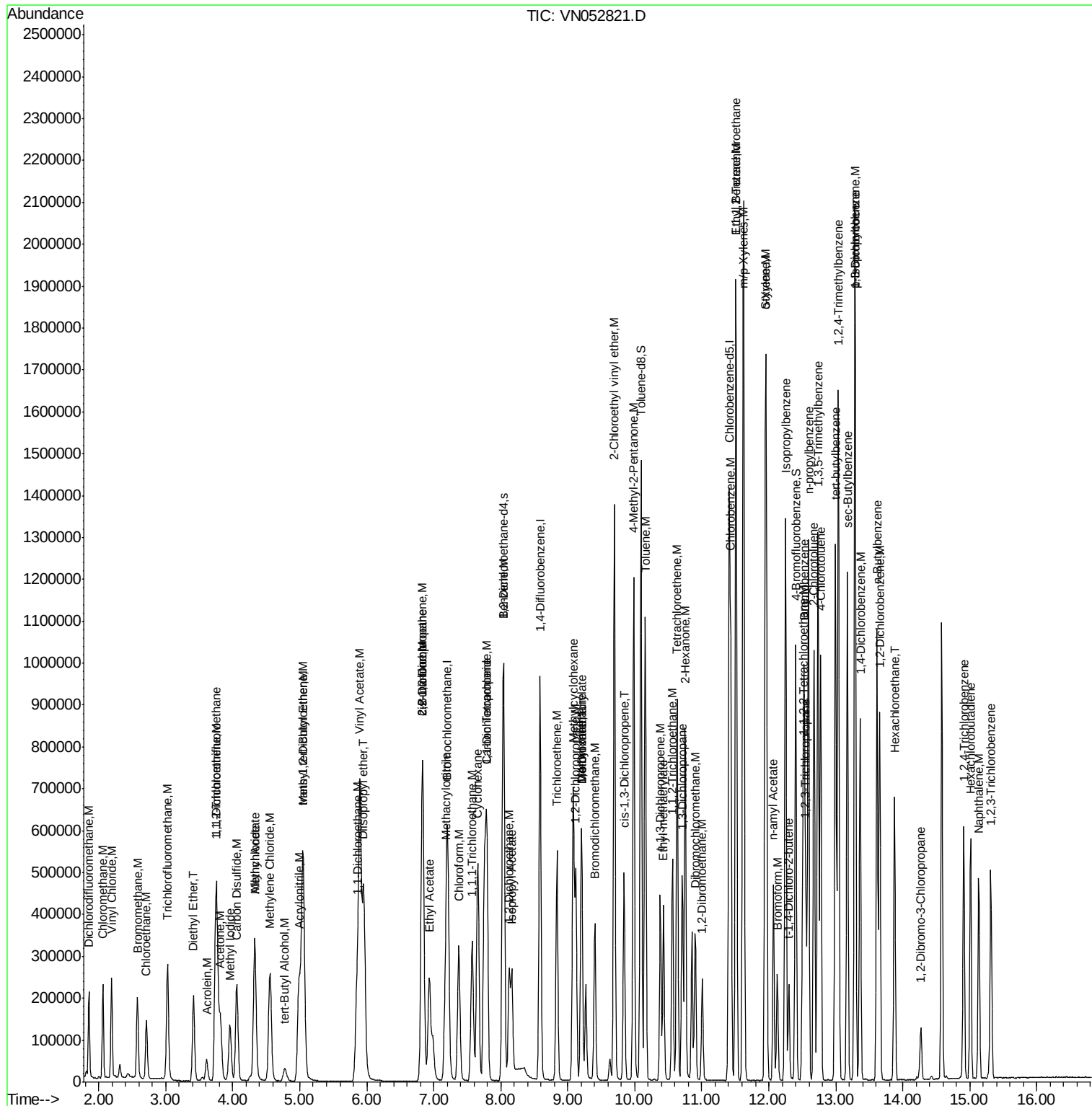
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Data File : VN052821.D
Acq On : 12 Dec 2018 12:29
Operator : MD\SY
Sample : VN121218WSD01
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 6 Sample Multiplier: 28

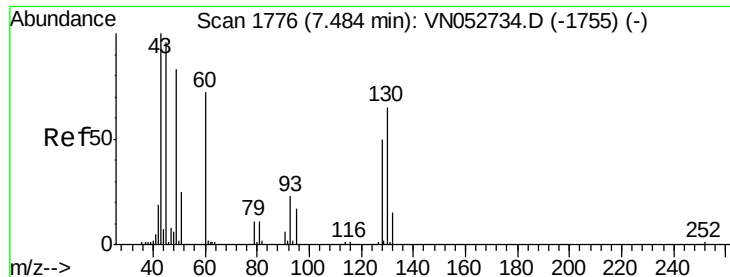
Instrument :
MSVOA_N
ClientSampleId :
VN121218WSD01

Manual Integrations
APPROVED

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12/13/2018 1:29:27 PM

Quant Time: Dec 13 04:00:48 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA N\METHODS\624N112618W.M
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QLast Update : Tue Nov 27 00:48:33 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.20 min Scan# 1687

Delta R.T. 0.00 min

Lab File: VN052821.D

Acq: 12 Dec 2018 12:29

Instrument :

MSVOA_N

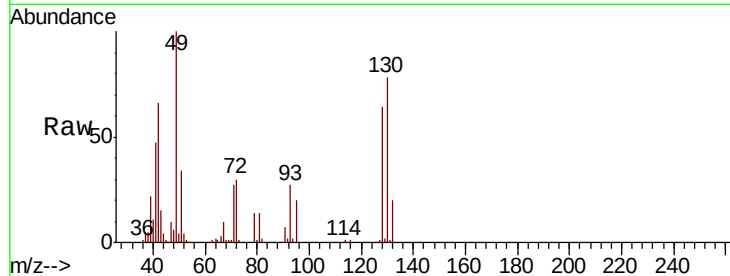
ClientSampleId :

VN1212WBSD01

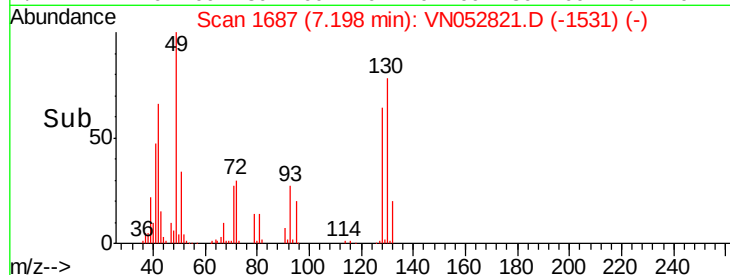
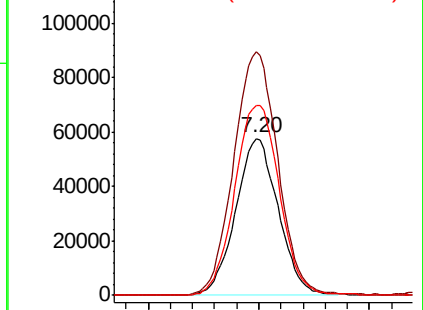
Tot Ion:	128	Resp:	154247
Ion	Ratio	Lower	Upper
128	100		
49	161.1	0.0	431.8
130	127.1	0.0	317.0

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



#2

Dichlorodifluoromethane

Concen: 17.680 ug/l

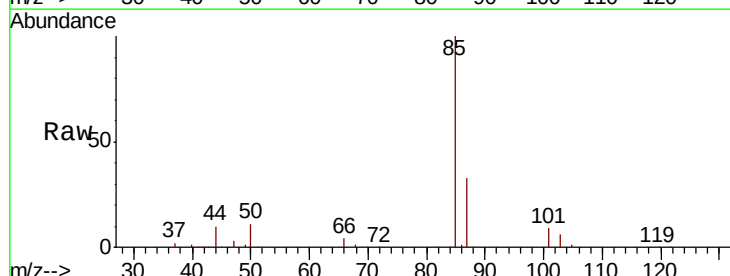
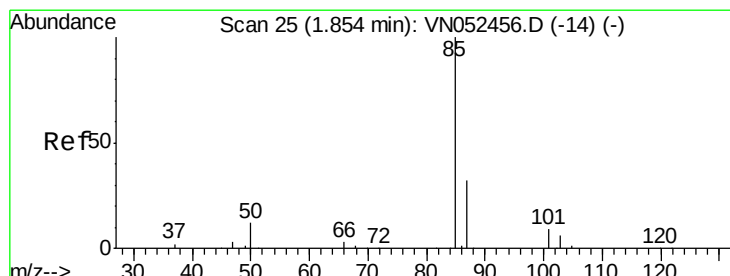
RT: 1.85 min Scan# 25

Delta R.T. 0.00 min

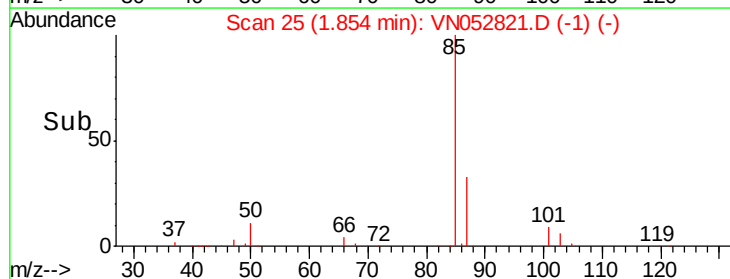
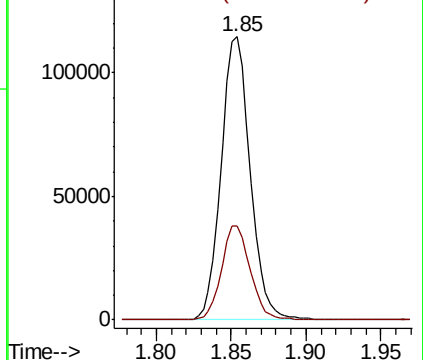
Lab File: VN052821.D

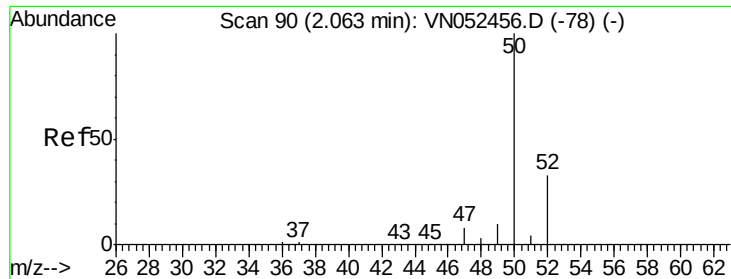
Acq: 12 Dec 2018 12:29

Tgt Ion:	85	Resp:	155314
Ion	Ratio	Lower	Upper
85	100		
87	33.4	16.1	48.3



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





#3

Chloromethane

Concen: 17.735 ug/l

RT: 2.06 min Scan# 90

Delta R.T. 0.00 min

Lab File: VN052821.D

Acq: 12 Dec 2018 12:29

Instrument :

MSVOA_N

ClientSampleId :

VN1212WBSD01

Tot Ion: 50 Resp: 206627

Ion Ratio Lower Upper

50 100

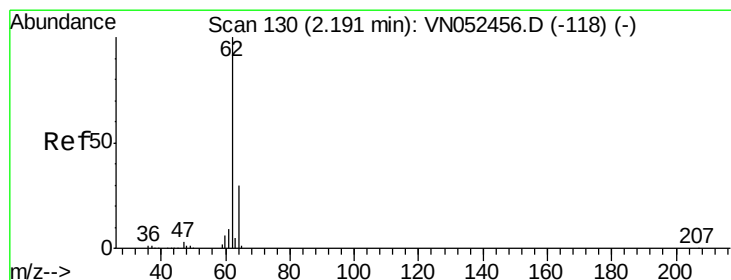
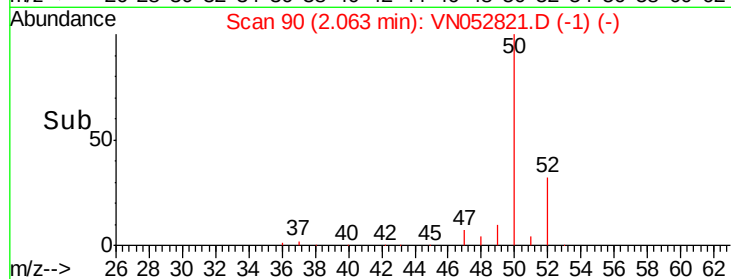
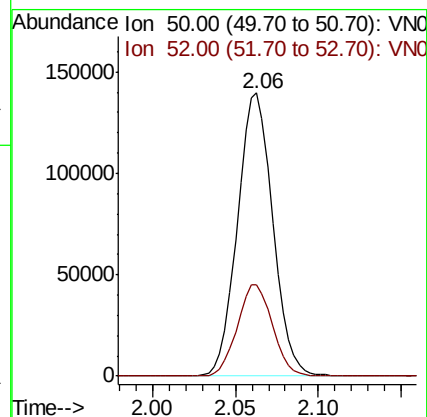
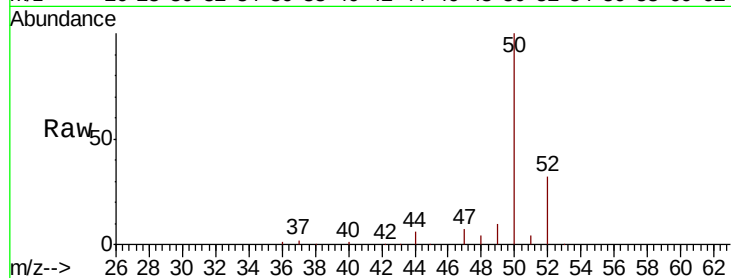
52 32.5 26.5 39.7

Manual Integrations

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#4

Vinyl Chloride

Concen: 18.538 ug/l

RT: 2.19 min Scan# 130

Delta R.T. 0.00 min

Lab File: VN052821.D

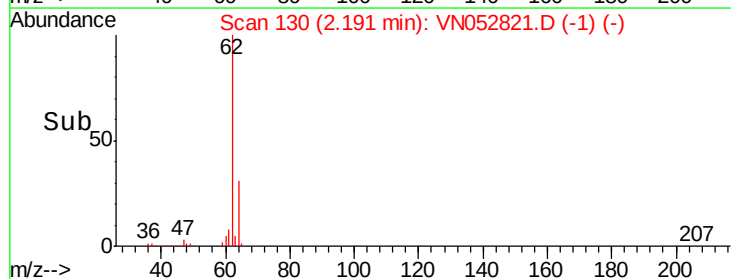
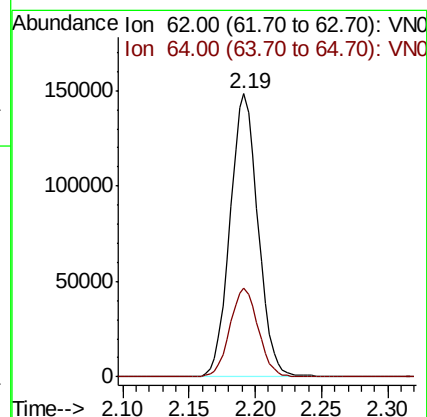
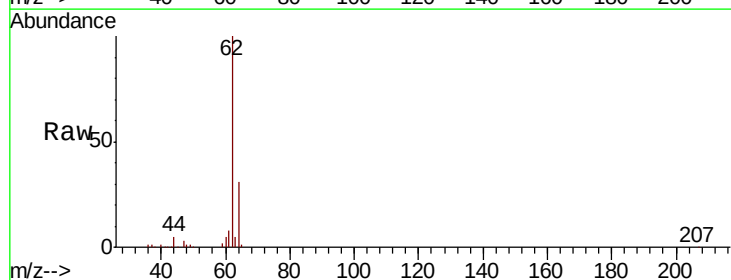
Acq: 12 Dec 2018 12:29

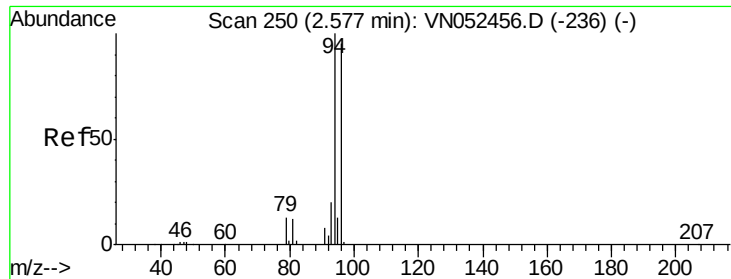
Tgt Ion: 62 Resp: 217984

Ion Ratio Lower Upper

62 100

64 31.2 24.2 36.4





#5

Bromomethane

Concen: 19.522 ug/l

RT: 2.58 min Scan# 250

Delta R.T. 0.00 min

Lab File: VN052821.D

Acq: 12 Dec 2018 12:29

Instrument :

MSVOA_N

ClientSampleId :

VN1212WBSD01

Tot Ion: 94 Resp: 130888

Ion Ratio Lower Upper

94 100

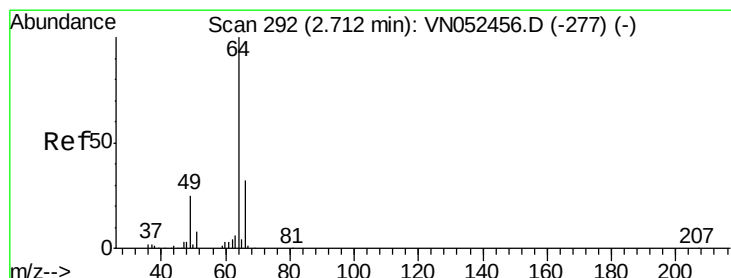
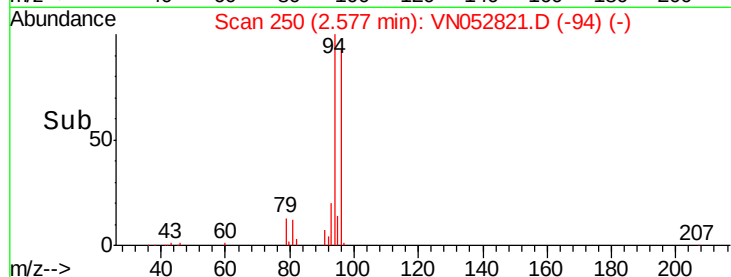
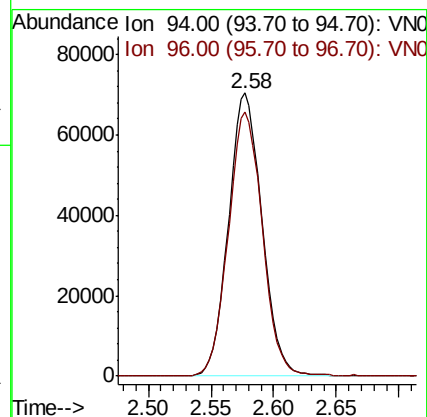
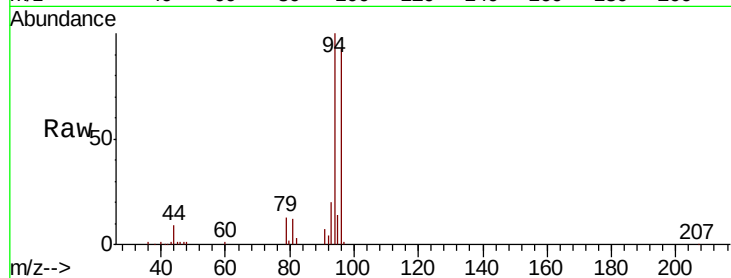
96 93.1 76.2 114.2

Manual Integrations

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#6

Chloroethane

Concen: 19.045 ug/l

RT: 2.71 min Scan# 292

Delta R.T. 0.00 min

Lab File: VN052821.D

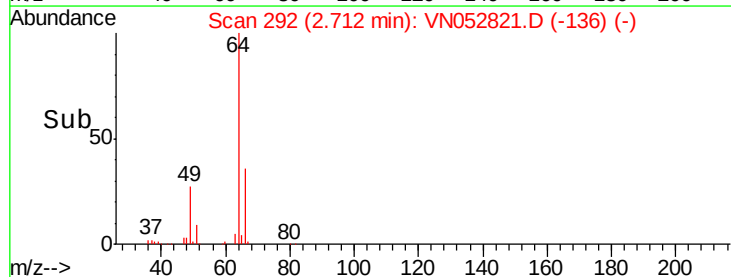
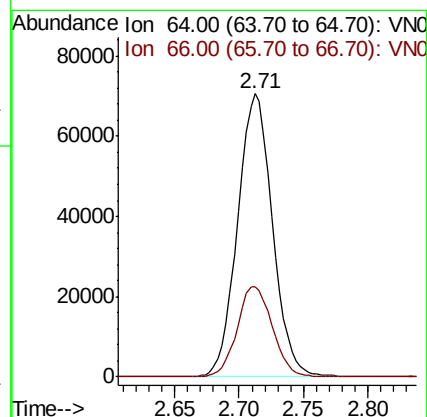
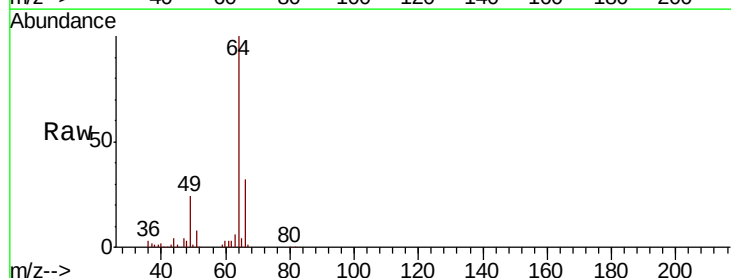
Acq: 12 Dec 2018 12:29

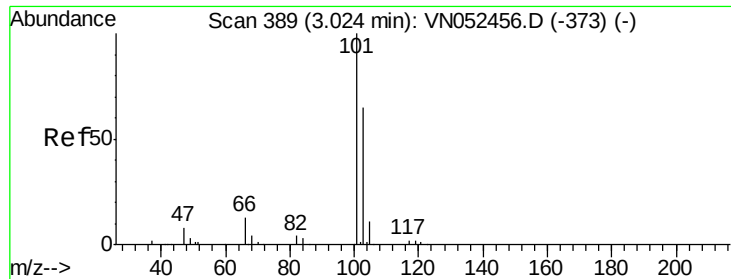
Tgt Ion: 64 Resp: 133177

Ion Ratio Lower Upper

64 100

66 31.9 25.6 38.4





#7

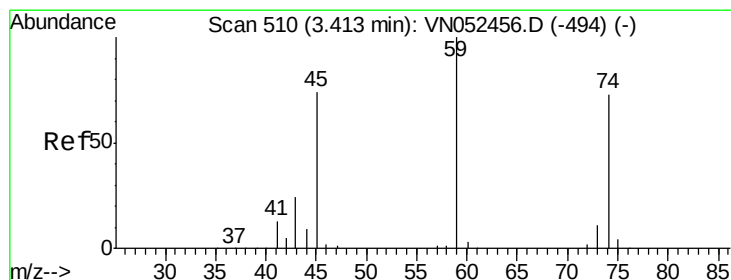
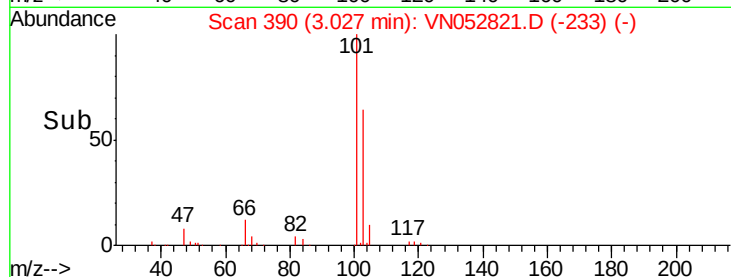
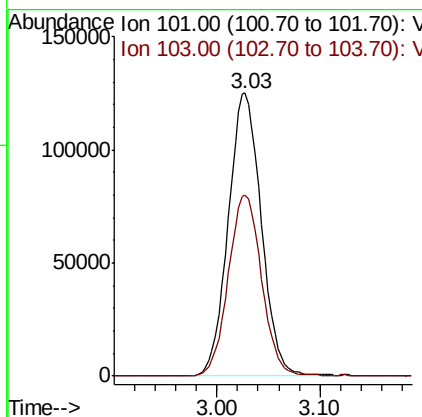
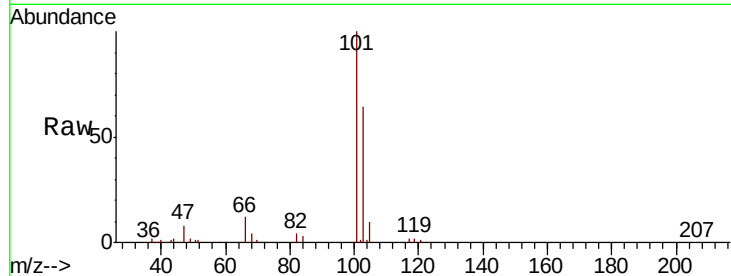
Trichlorofluoromethane
Concen: 19.289 ug/l
RT: 3.03 min Scan# 390
Delta R.T. 0.00 min
Lab File: VN052821.D
Acq: 12 Dec 2018 12:29

Instrument :
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ClientSampleId :
VN1212WBSD01

Tot Ion	Ratio	Lower	Upper
101	100		
103	64.1	52.1	78.1

Manual Integrations
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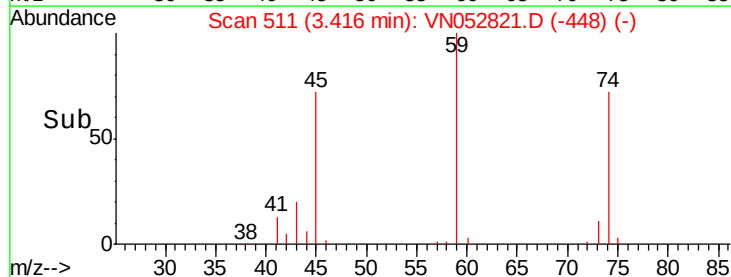
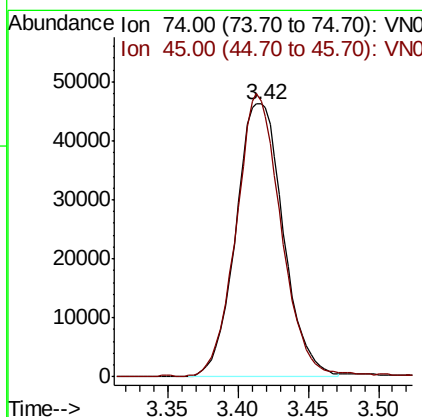
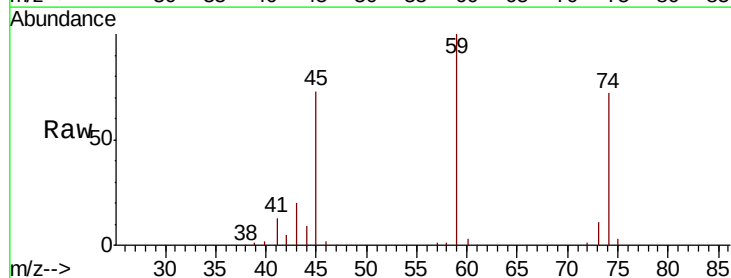
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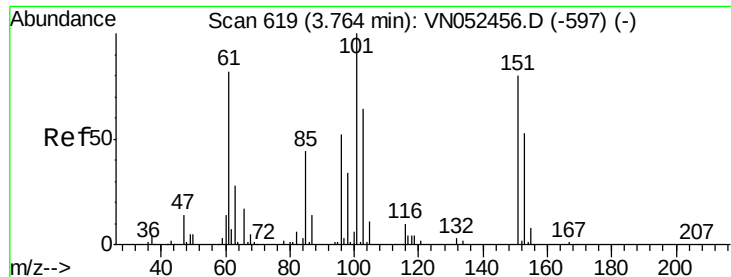


#8

Diethyl Ether
Concen: 20.337 ug/l
RT: 3.42 min Scan# 511
Delta R.T. 0.00 min
Lab File: VN052821.D
Acq: 12 Dec 2018 12:29

Tgt Ion	Ratio	Lower	Upper
74	100		
45	97.0	20.6	185.8





#9

1,1,2-Trichlorotrifluoroethane

Concen: 19.343 ug/l

RT: 3.77 min Scan# 620

Delta R.T. 0.00 min

Lab File: VN052821.D

Acq: 12 Dec 2018 12:29

Instrument :

MSVOA_N

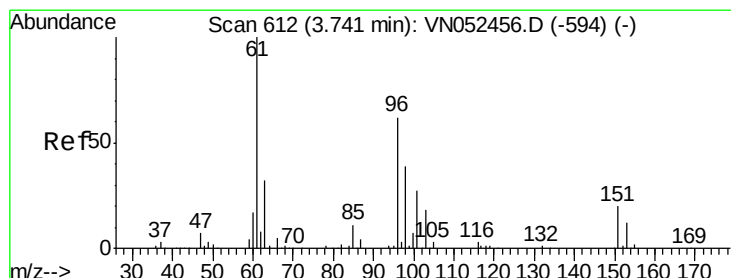
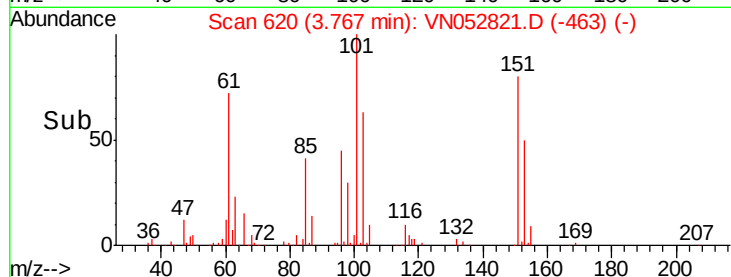
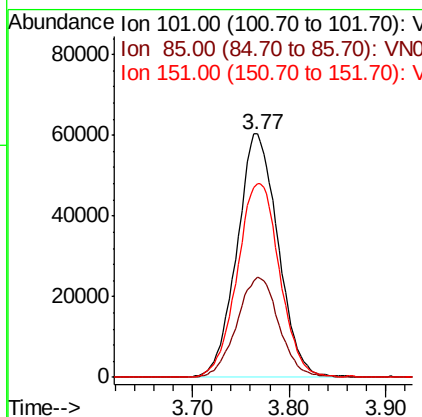
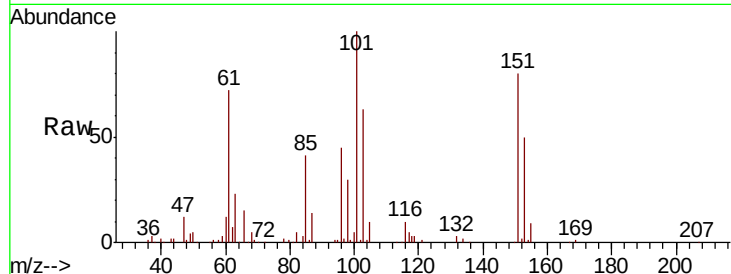
ClientSampleId :

VN1212WBSD01

Tot Ion:	101	Resp:	177945
Ion Ratio	Lower	Upper	
101	100		
85	41.9	0.0	82.6
151	82.3	0.0	158.4

Manual Integrations
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#10

1,1-Dichloroethene

Concen: 19.657 ug/l

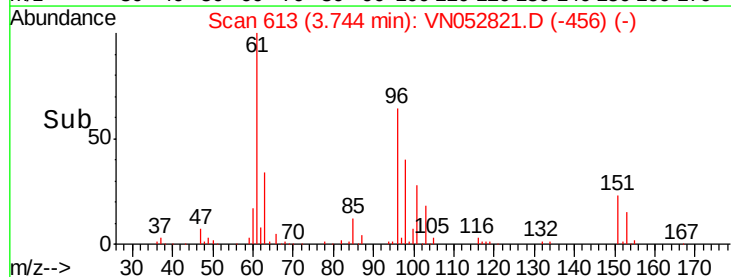
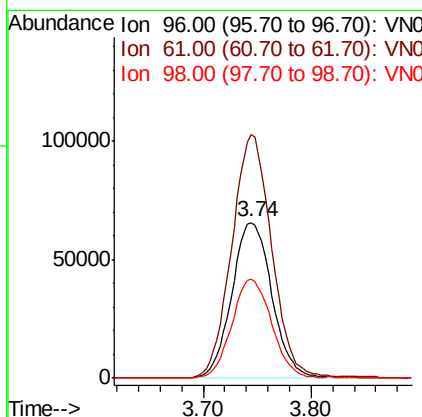
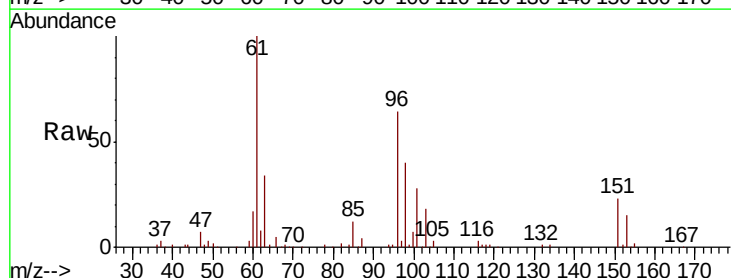
RT: 3.74 min Scan# 613

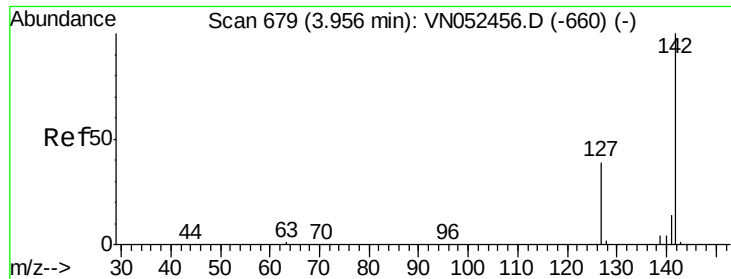
Delta R.T. 0.00 min

Lab File: VN052821.D

Acq: 12 Dec 2018 12:29

Tgt Ion:	96	Resp:	170028
Ion Ratio	Lower	Upper	
96	100		
61	156.4	129.4	194.2
98	63.5	50.4	75.6





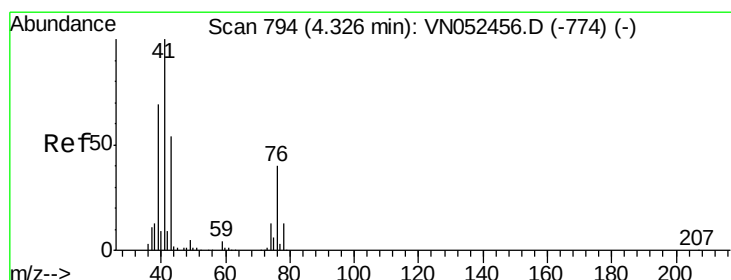
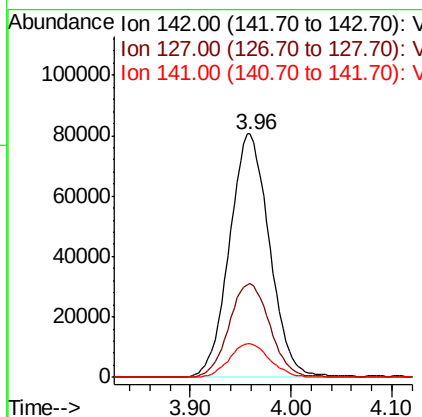
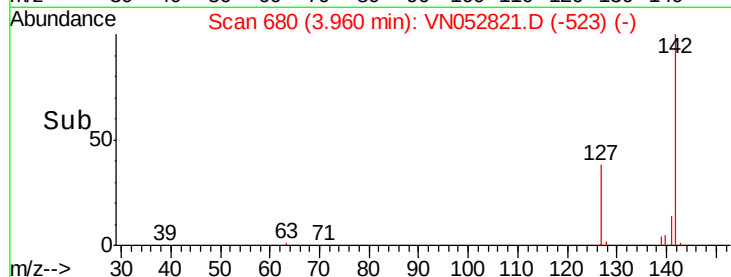
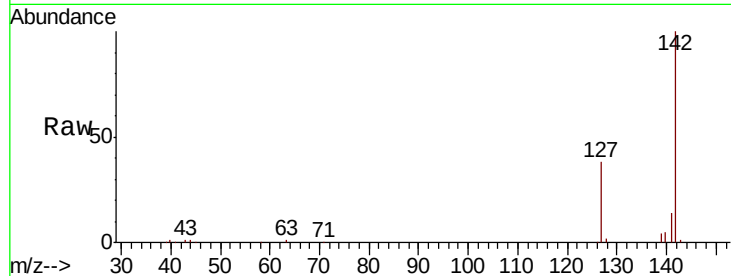
#11
Methvl Iodide
Concen: 18.474 ug/l
RT: 3.96 min Scan# 680
Delta R.T. 0.00 min
Lab File: VN052821.D
Acq: 12 Dec 2018 12:29

Instrument :
MSVOA_N
ClientSampleId :
VN1212WBSD01

Tot Ion:	142	Resp:	221863
Ion Ratio	Lower	Upper	
142	100		
127	38.3	19.4	58.1
141	14.0	7.2	21.6

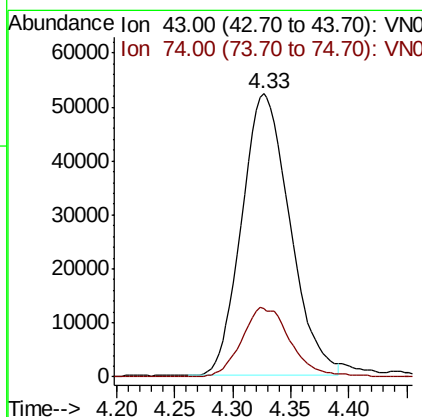
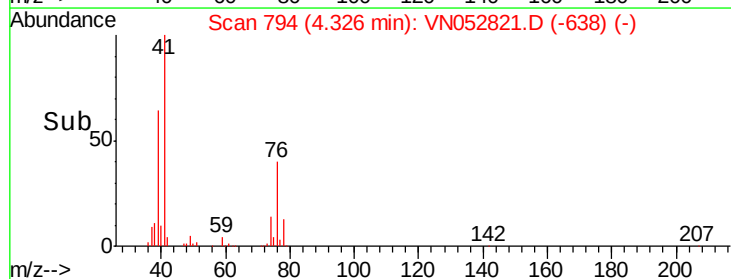
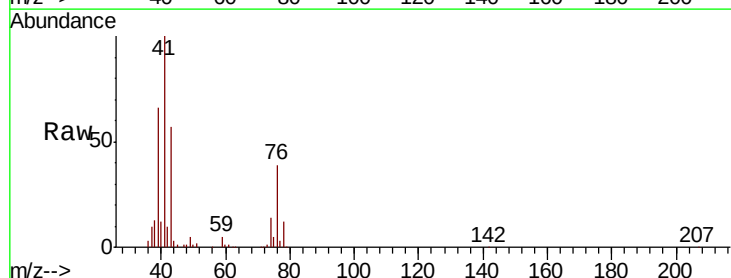
Manual Integrations
APPROVED

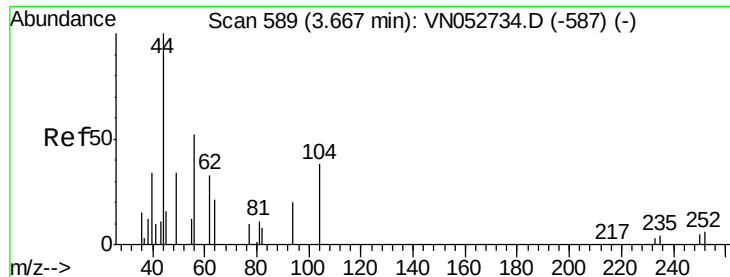
MMDadoda
12/13/2018 1:29:27 PM



#12
Methyl Acetate
Concen: 20.577 ug/l
RT: 4.33 min Scan# 794
Delta R.T. 0.00 min
Lab File: VN052821.D
Acq: 12 Dec 2018 12:29

Tgt Ion:	43	Resp:	151227
Ion Ratio	Lower	Upper	
43	100		
74	24.2	18.9	28.3





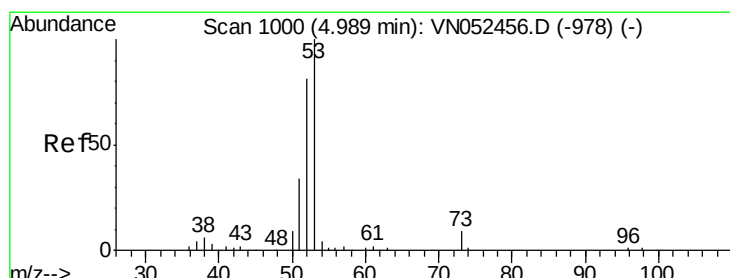
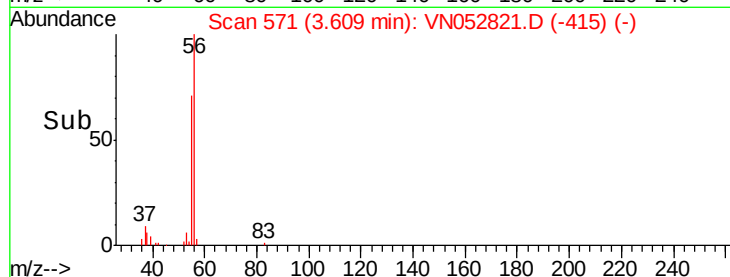
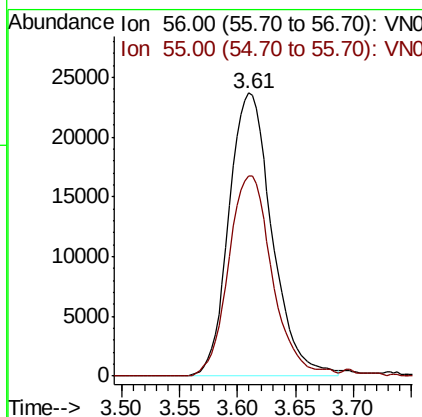
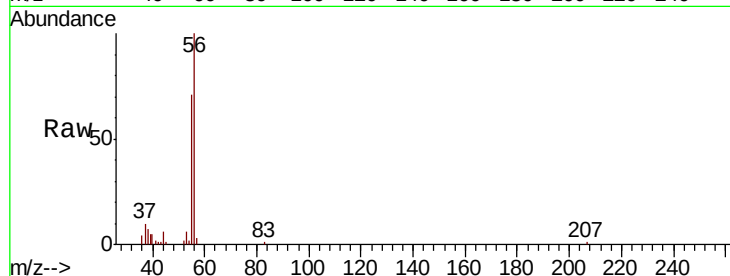
#13
Acrolein
Concen: 70.780 ug/l
RT: 3.61 min Scan# 571
Delta R.T. 0.00 min
Lab File: VN052821.D
Acq: 12 Dec 2018 12:29

Instrument :
MSVOA_N
ClientSampleId :
VN1212WBSD01

Tot Ion: 56 Resp: 61105
Ion Ratio Lower Upper
56 100
55 71.0 56.7 85.1

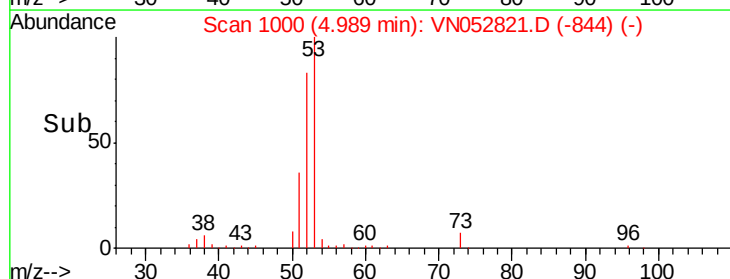
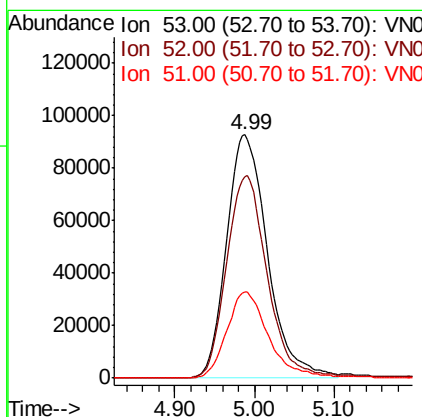
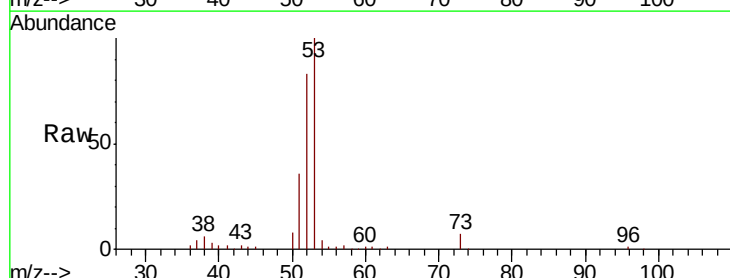
Manual Integrations
APPROVED

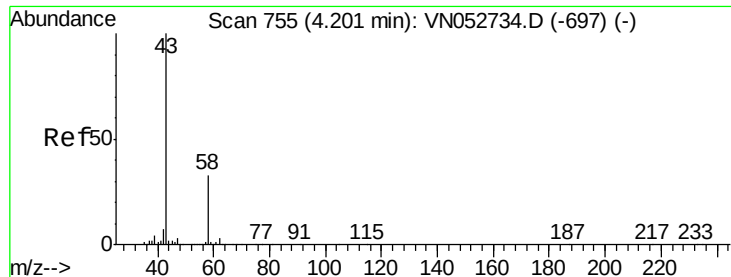
MMDadoda
12/13/2018 1:29:27 PM



#14
Acrylonitrile
Concen: 103.548 ug/l
RT: 4.99 min Scan# 1000
Delta R.T. 0.00 min
Lab File: VN052821.D
Acq: 12 Dec 2018 12:29

Tgt Ion: 53 Resp: 324258
Ion Ratio Lower Upper
53 100
52 82.2 39.9 119.7
51 35.6 17.6 52.9





#15

Acetone

Concen: 94.478 ug/l

RT: 3.82 min Scan# 636

Delta R.T. 0.00 min

Lab File: VN052821.D

Acq: 12 Dec 2018 12:29

Instrument :

MSVOA_N

ClientSampleId :

VN1212WBSD01

Tot Ion: 58 Resp: 76620

Ion Ratio Lower Upper

58 100

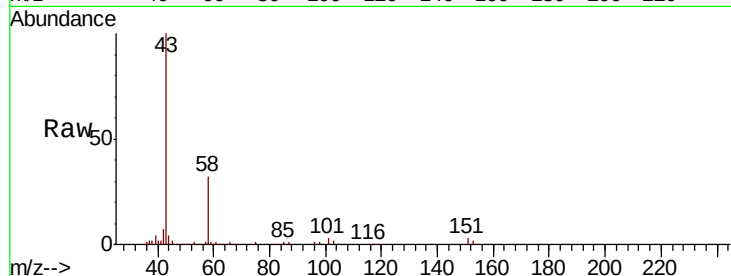
43 307.6 243.6 365.4

Manual Integrations

APPROVED

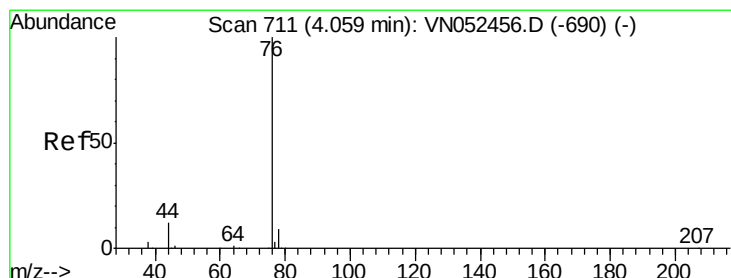
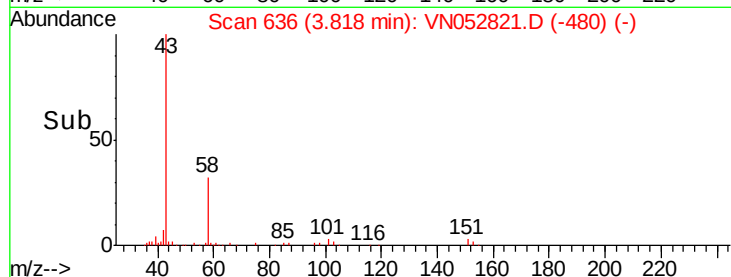
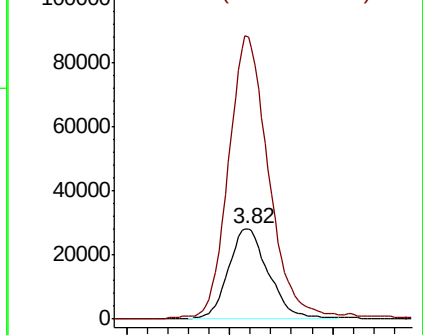
MMDadoda

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Abundance Ion 58.00 (57.70 to 58.70): VN052821.D (-480) (-)

Ion 43.00 (42.70 to 43.70): VN052821.D (-480) (-)



#16

Carbon Disulfide

Concen: 17.241 ug/l

RT: 4.06 min Scan# 711

Delta R.T. 0.00 min

Lab File: VN052821.D

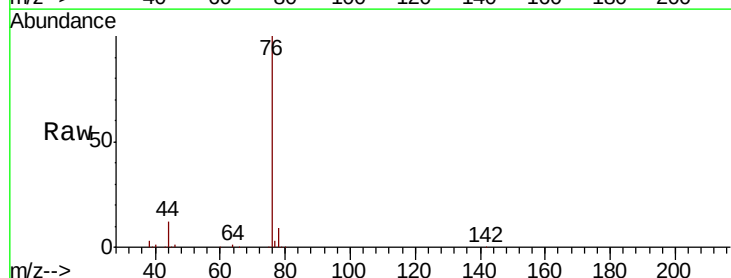
Acq: 12 Dec 2018 12:29

Tgt Ion: 76 Resp: 472139

Ion Ratio Lower Upper

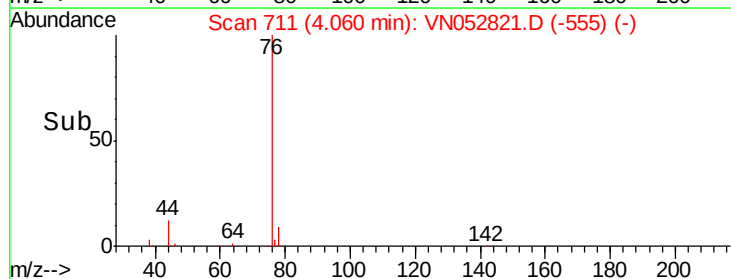
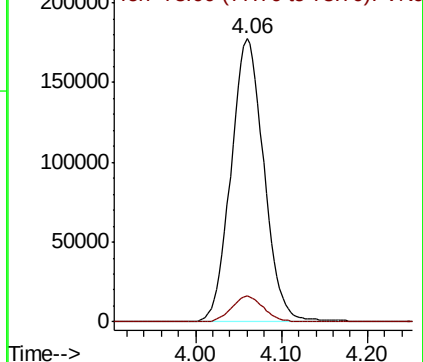
76 100

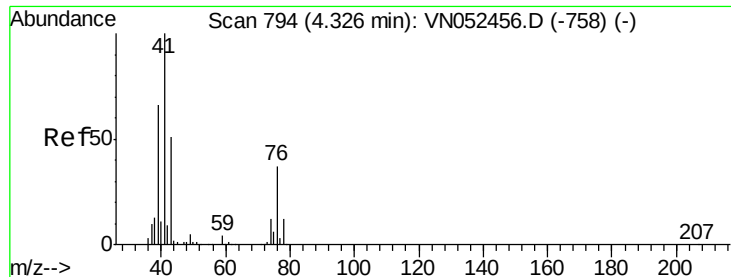
78 9.0 7.3 10.9



Abundance Ion 76.00 (75.70 to 76.70): VN052821.D (-555) (-)

Ion 78.00 (77.70 to 78.70): VN052821.D (-555) (-)





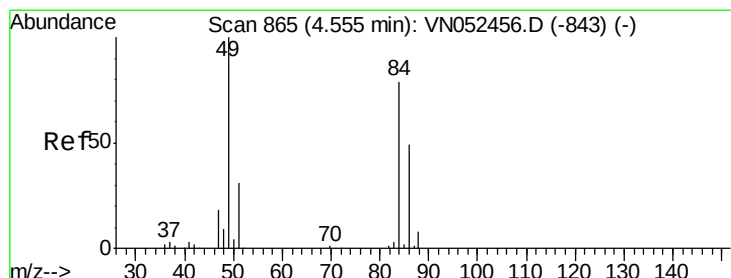
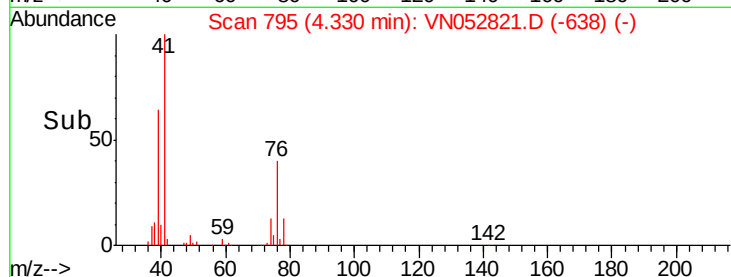
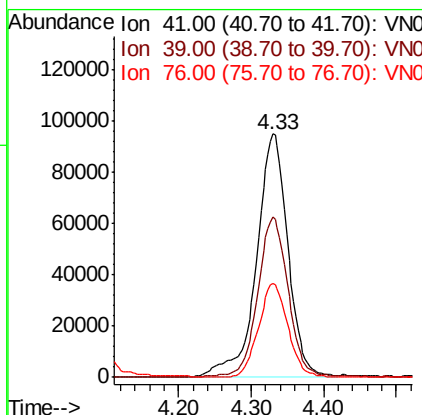
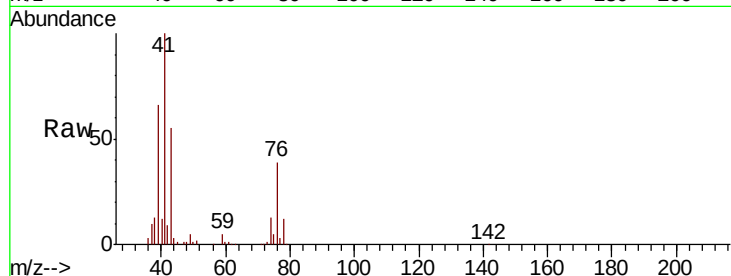
#17
Allvl chloride
Concen: 19.048 ug/l
RT: 4.33 min Scan# 795
Delta R.T. 0.00 min
Lab File: VN052821.D
Acq: 12 Dec 2018 12:29

Instrument :
MSVOA_N
ClientSampleId :
VN1212WBSD01

Tot Ion:	41	Resp:	287344
Ion	Ratio	Lower	Upper
41	100		
39	65.7	32.8	98.3
76	38.3	18.6	55.8

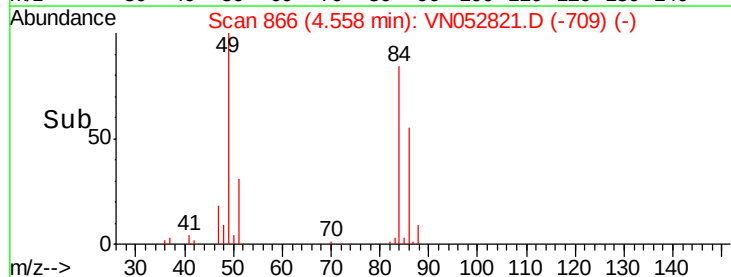
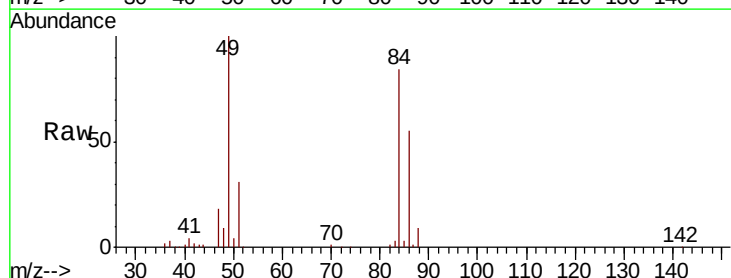
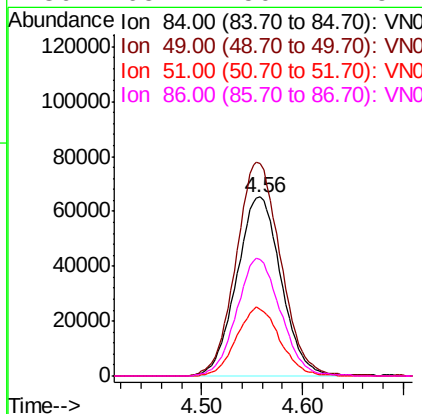
Manual Integrations
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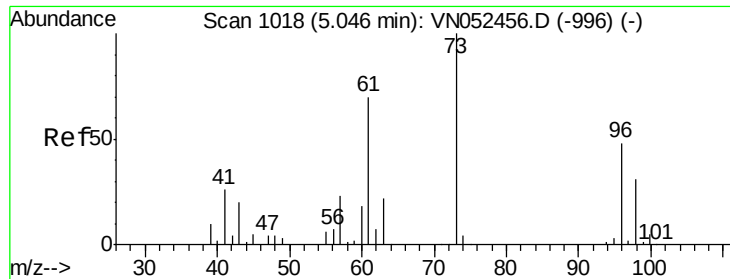
MMDadoda
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#18
Methylene Chloride
Concen: 19.923 ug/l
RT: 4.56 min Scan# 866
Delta R.T. 0.00 min
Lab File: VN052821.D
Acq: 12 Dec 2018 12:29

Tgt Ion:	84	Resp:	199531
Ion	Ratio	Lower	Upper
84	100		
49	119.0	101.4	152.0
51	37.3	31.7	47.5
86	65.4	50.1	75.1





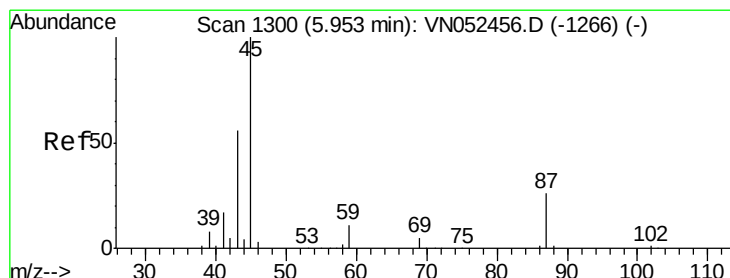
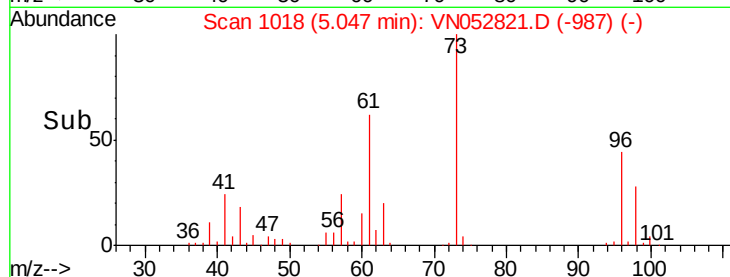
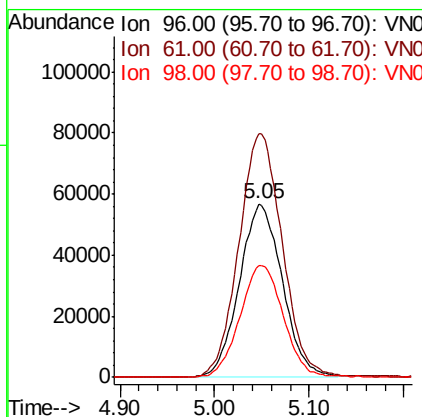
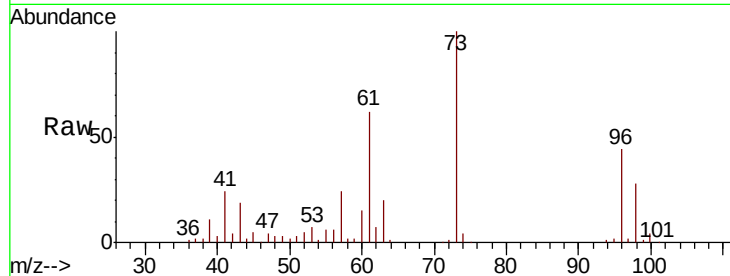
#19
trans-1,2-Dichloroethene
Concen: 19.293 ug/l
RT: 5.05 min Scan# 1018
Delta R.T. 0.00 min
Lab File: VN052821.D
Acq: 12 Dec 2018 12:29

Instrument :
MSVOA_N
ClientSampleId :
VN1212WBSD01

Tot Ion	Ratio	Lower	Upper
96	100		
61	140.2	118.2	177.4
98	64.7	51.4	77.2

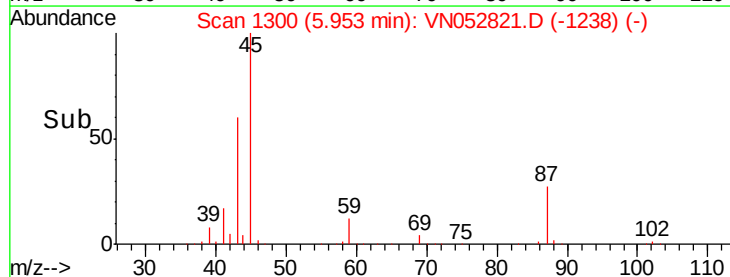
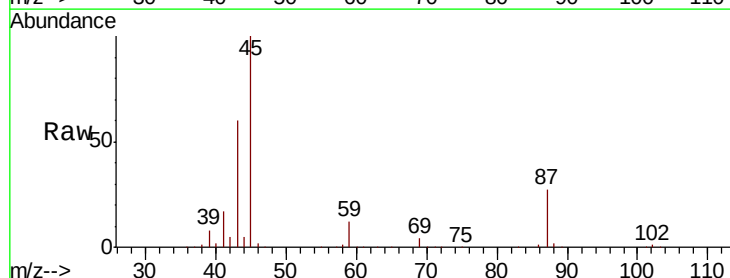
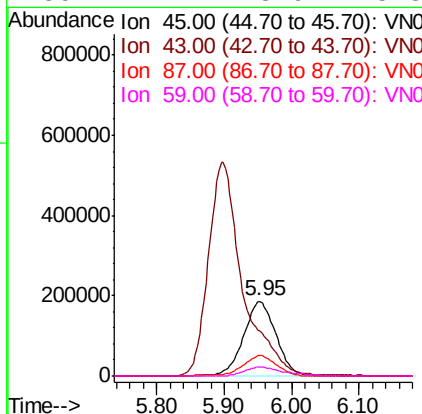
Manual Integrations
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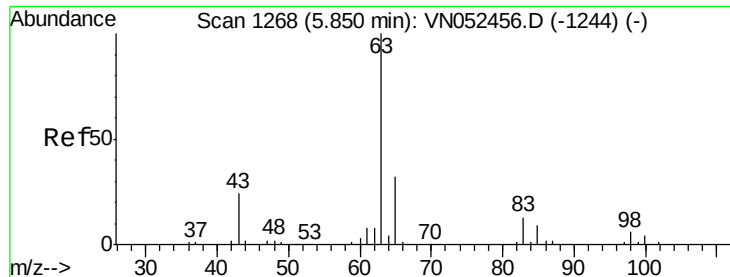
MMDadoda
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#20
Diisopropyl ether
Concen: 19.593 ug/l
RT: 5.95 min Scan# 1300
Delta R.T. 0.00 min
Lab File: VN052821.D
Acq: 12 Dec 2018 12:29

Tgt Ion	Ratio	Lower	Upper
45	100		
43	59.0	47.8	71.8
87	27.1	21.3	31.9
59	12.2	8.9	13.3





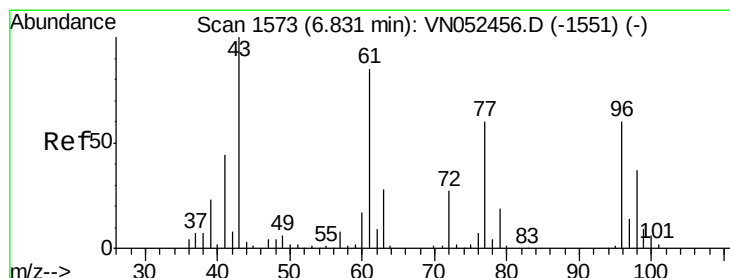
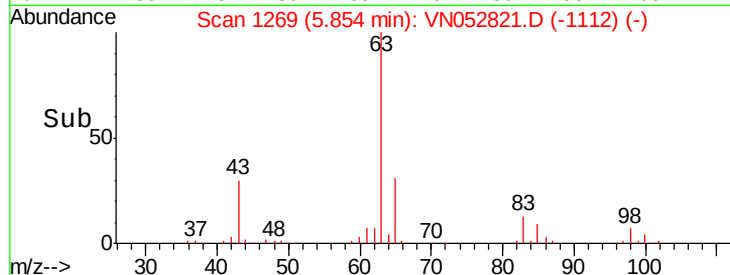
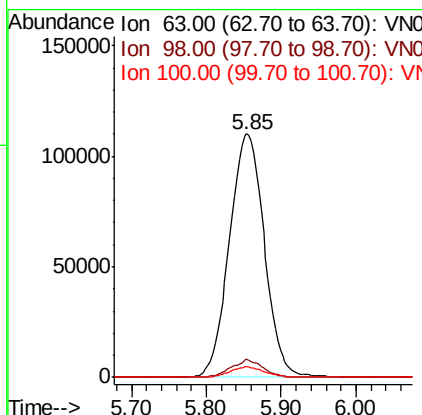
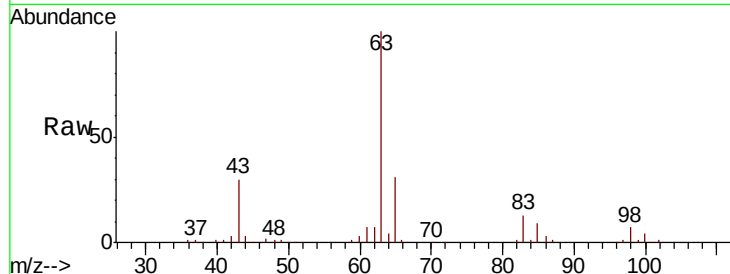
#21
 1,1-Dichloroethane
 Concen: 19.843 ug/l
 RT: 5.85 min Scan# 1269
 Delta R.T. 0.00 min
 Lab File: VN052821.D
 Acq: 12 Dec 2018 12:29

Instrument :
 MSVOA_N
 ClientSampleID :
 VN1212WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
63	100			
98	7.3	3.0	9.2	
100	4.4	1.8	5.5	

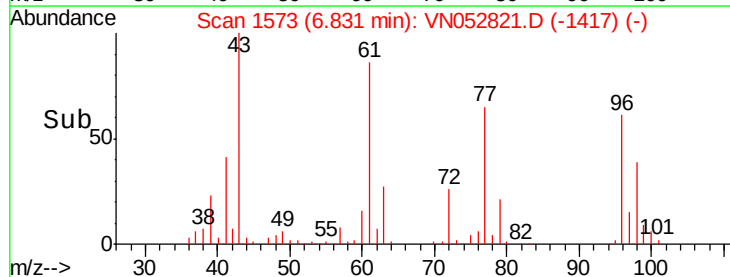
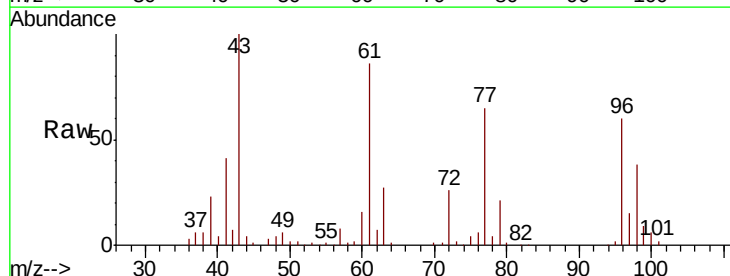
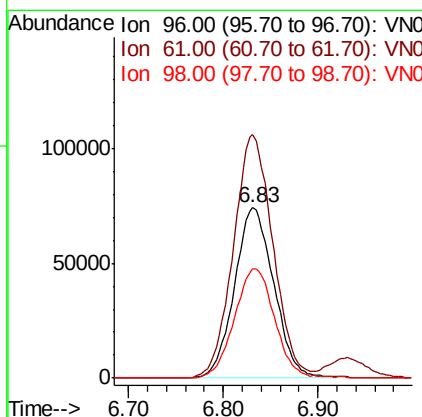
Manual Integrations
 APPROVED

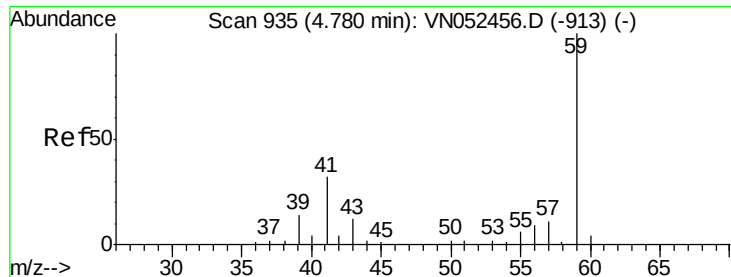
MMDadoda
 12/13/2018 1:29:27 PM



#22
 cis-1,2-Dichloroethene
 Concen: 20.118 ug/l
 RT: 6.83 min Scan# 1573
 Delta R.T. 0.00 min
 Lab File: VN052821.D
 Acq: 12 Dec 2018 12:29

Tgt Ion	Ratio	Resp	Lower	Upper
96	100			
61	143.4	116.7	175.1	
98	65.0	50.8	76.2	





#23

tert-Butyl Alcohol

Concen: 116.438 ug/l m

RT: 4.78 min Scan# 934

Delta R.T. -0.00 min

Lab File: VN052821.D

Acq: 12 Dec 2018 12:29

Instrument :

MSVOA_N

ClientSampleId :

VN1212WBSD01

Tot Ion: 59 Resp: 54241

Ion Ratio Lower Upper

59 100

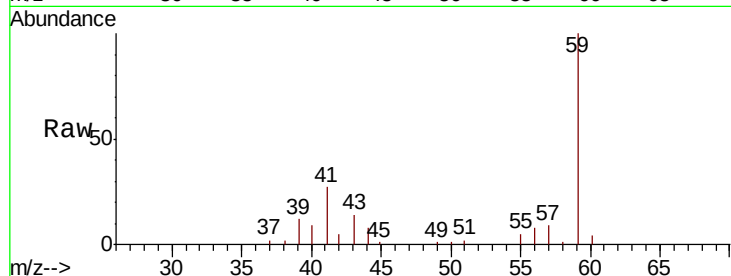
52 0.0 0.0 0.0

Manual Integrations

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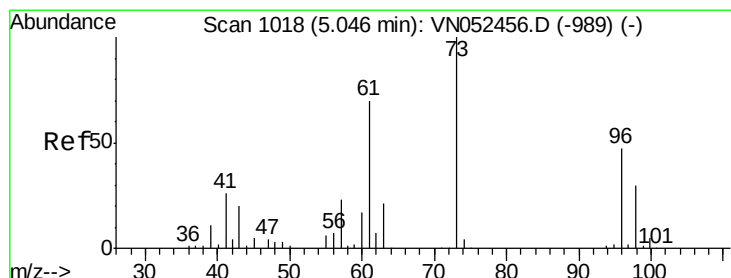
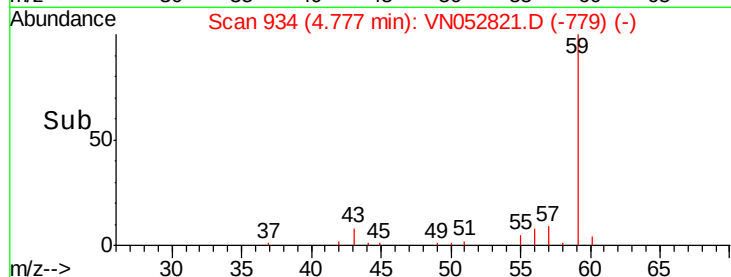
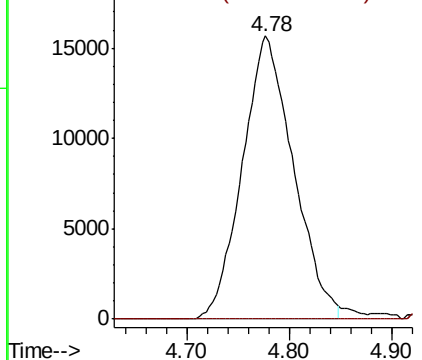
MMDadoda

12/13/2018 1:29:27 PM



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 52.00 (51.70 to 52.70): VN0



#24

Methyl tert-Butyl Ether

Concen: 21.280 ug/l

RT: 5.05 min Scan# 1018

Delta R.T. 0.00 min

Lab File: VN052821.D

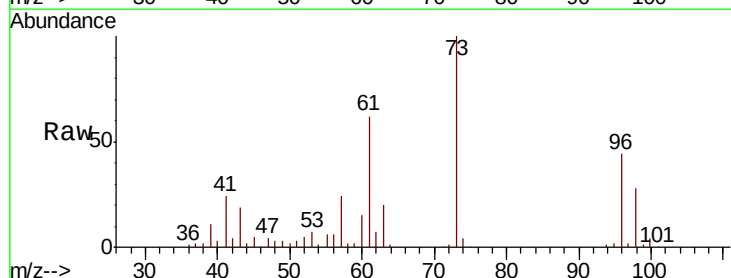
Acq: 12 Dec 2018 12:29

Tgt Ion: 73 Resp: 482893

Ion Ratio Lower Upper

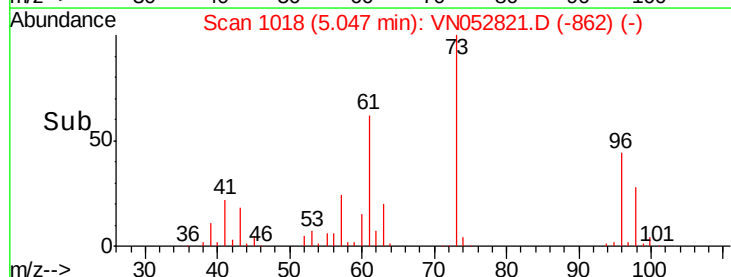
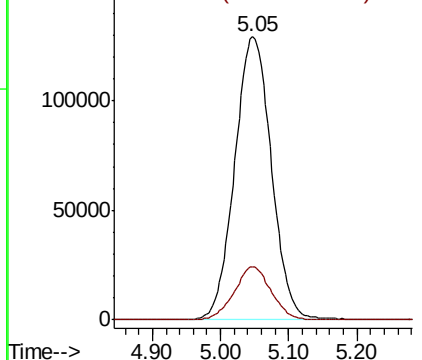
73 100

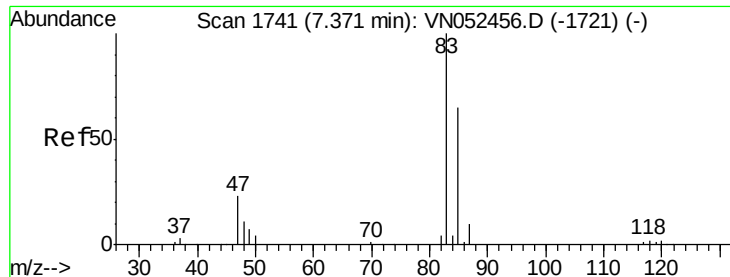
43 18.3 15.8 23.8



Abundance Ion 73.00 (72.70 to 73.70): VN0

Ion 43.00 (42.70 to 43.70): VN0





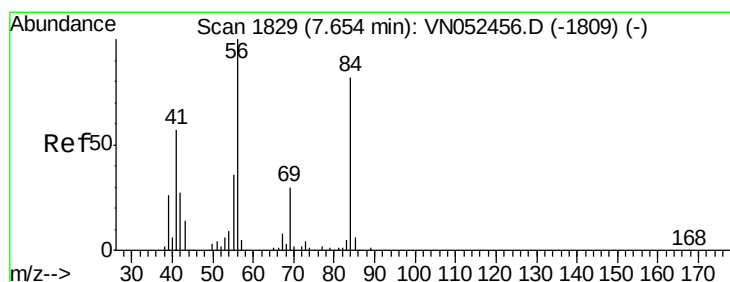
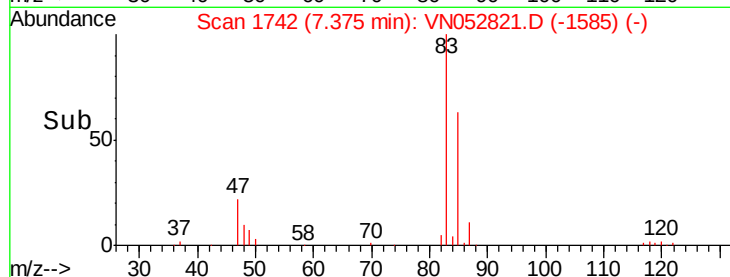
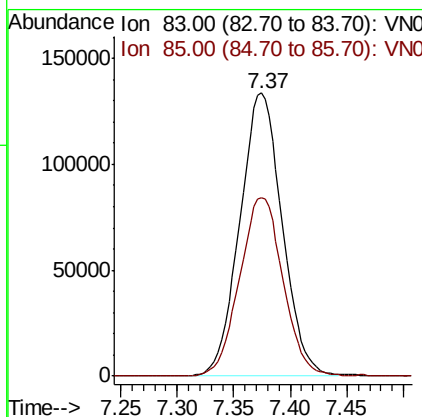
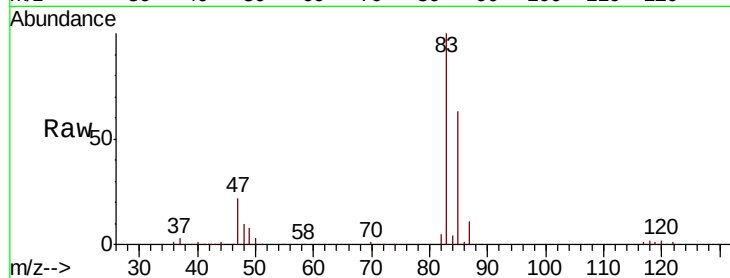
#25
Chloroform
Concen: 19.963 ug/l
RT: 7.37 min Scan# 1742
Delta R.T. 0.00 min
Lab File: VN052821.D
Acq: 12 Dec 2018 12:29

Instrument :
MSVOA_N
ClientSampleId :
VN1212WBSD01

Tot Ion: 83 Resp: 347979
Ion Ratio Lower Upper
83 100
85 63.2 51.7 77.5

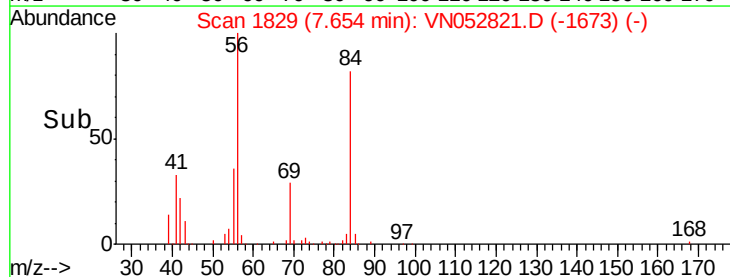
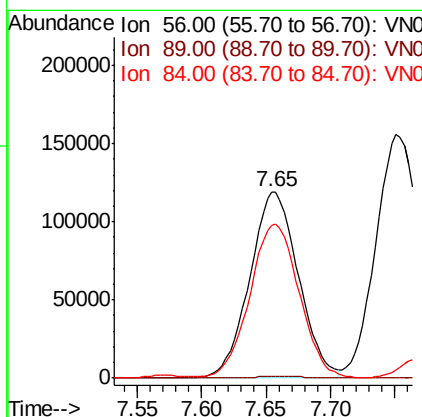
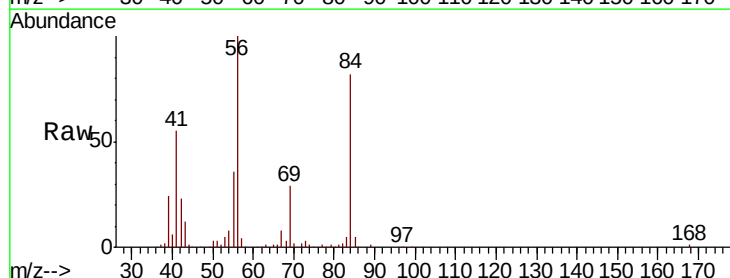
Manual Integrations
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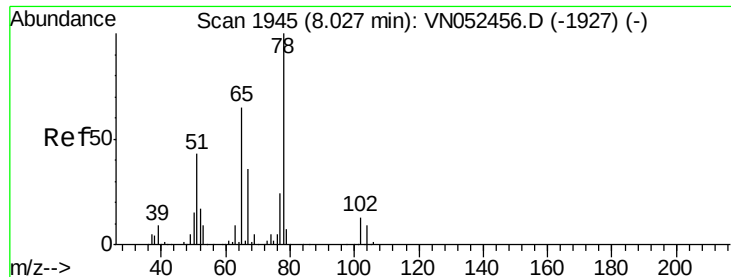
MMDadoda
12/13/2018 1:29:27 PM



#26
Cyclohexane
Concen: 18.345 ug/l
RT: 7.65 min Scan# 1829
Delta R.T. 0.00 min
Lab File: VN052821.D
Acq: 12 Dec 2018 12:29

Tgt Ion: 56 Resp: 312620
Ion Ratio Lower Upper
56 100
89 0.3 0.5 0.7#
84 84.0 66.2 99.2





#27

1,2-Dichloroethane-d4

Concen: 18.345 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN052821.D

Acq: 12 Dec 2018 12:29

Instrument :

MSVOA_N

ClientSampleId :

VN1212WBSD01

Tot Ion: 65 Resp: 306937

Ion Ratio Lower Upper

65 100

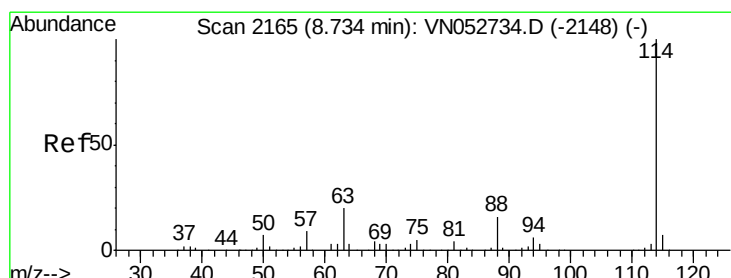
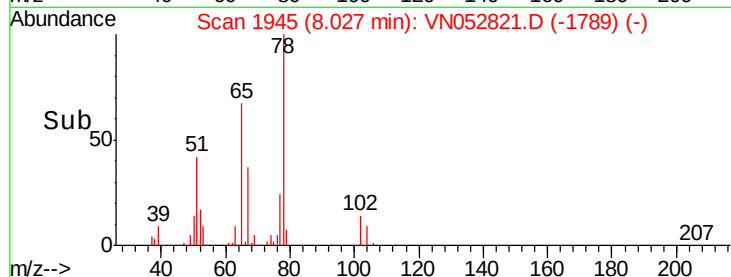
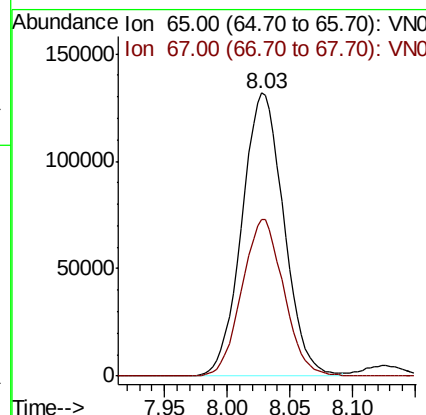
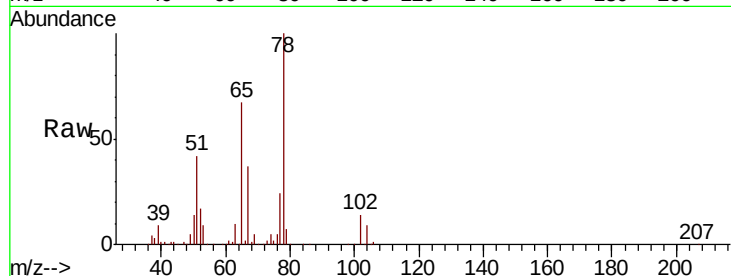
67 55.3 44.6 66.8

Manual Integrations

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#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VN052821.D

Acq: 12 Dec 2018 12:29

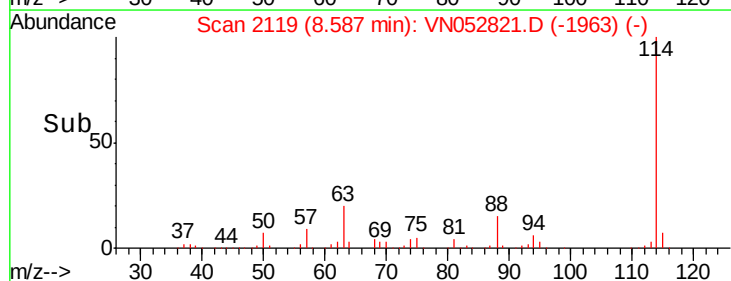
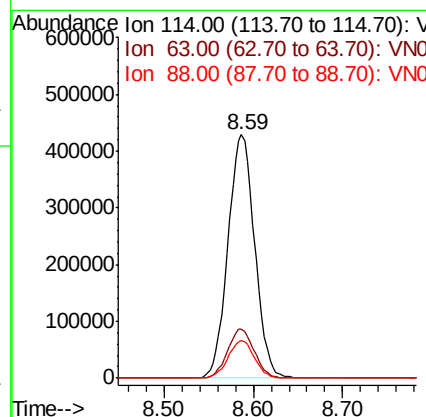
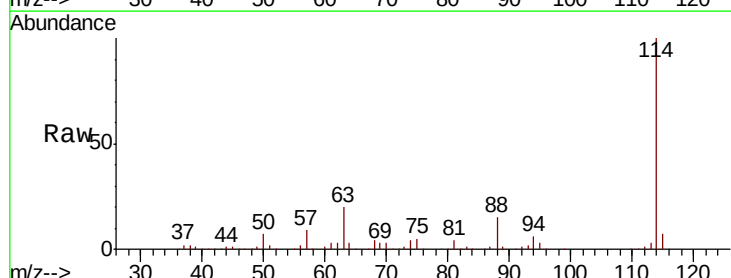
Tgt Ion: 114 Resp: 888540

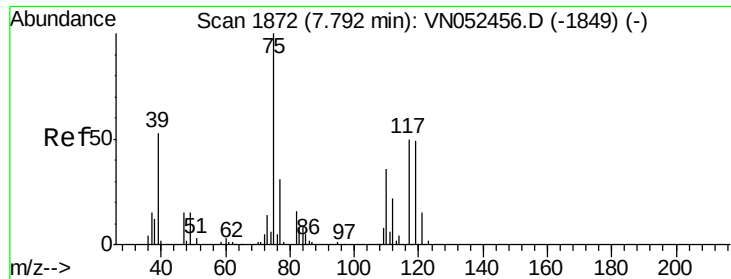
Ion Ratio Lower Upper

114 100

63 20.1 16.9 25.3

88 15.2 12.8 19.2





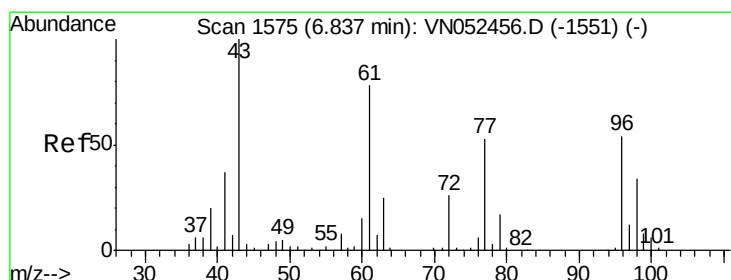
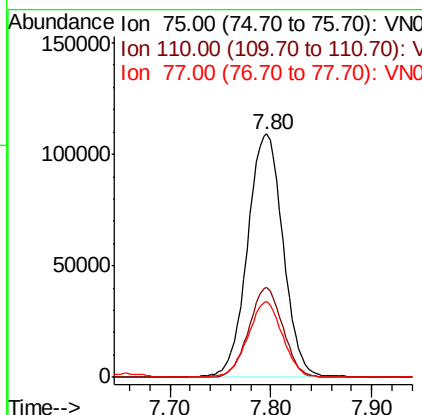
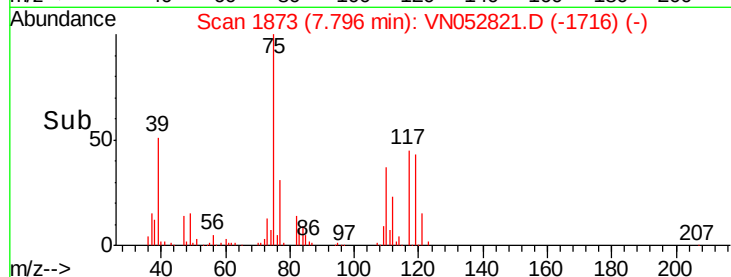
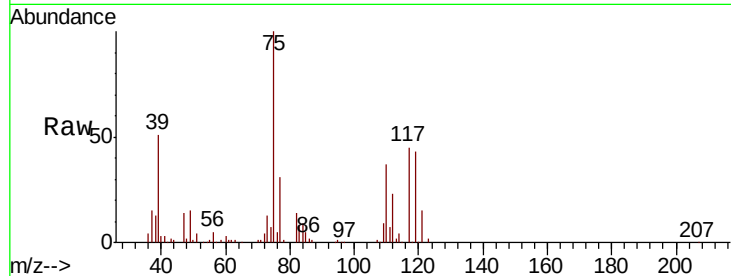
#29
 1,1-Dichloropropene
 Concen: 19.647 ug/l
 RT: 7.80 min Scan# 1873
 Delta R.T. 0.00 min
 Lab File: VN052821.D
 Acq: 12 Dec 2018 12:29

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1212WBSD01

Tot Ion	Ratio	Resp Lower	Upper
75	100		
110	35.2	0.0	70.2
77	30.6	0.0	62.6

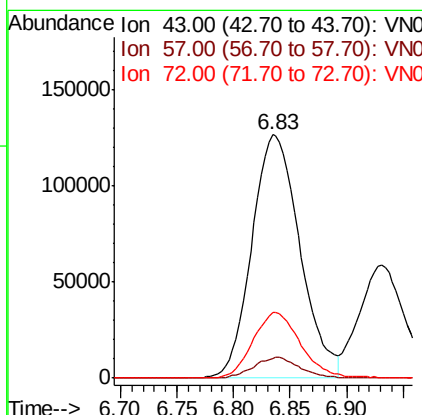
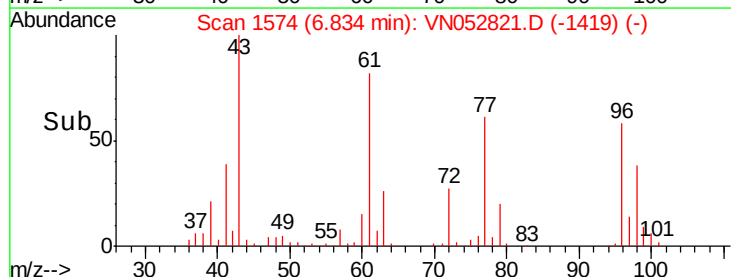
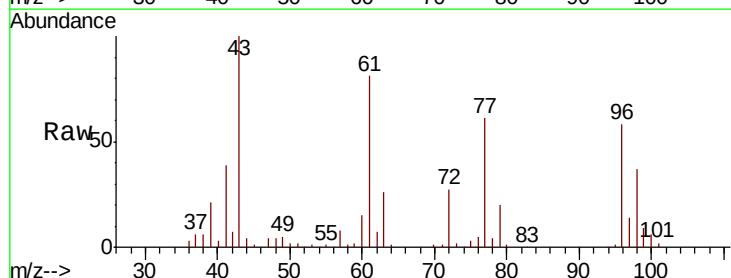
Manual Integrations
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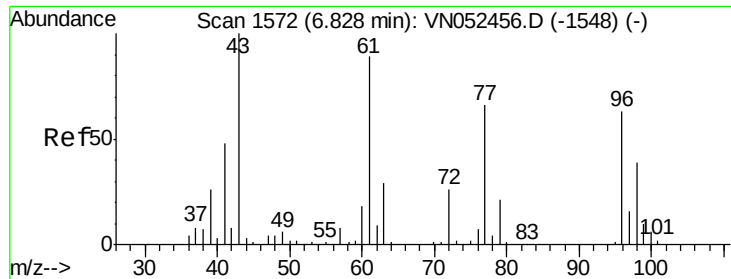
MMDadoda
 12/13/2018 1:29:27 PM



#30
 2-Butanone
 Concen: 102.914 ug/l
 RT: 6.83 min Scan# 1574
 Delta R.T. -0.00 min
 Lab File: VN052821.D
 Acq: 12 Dec 2018 12:29

Tgt Ion	Ratio	Resp Lower	Upper
43	100		
57	8.1	6.2	9.4
72	26.8	21.0	31.6





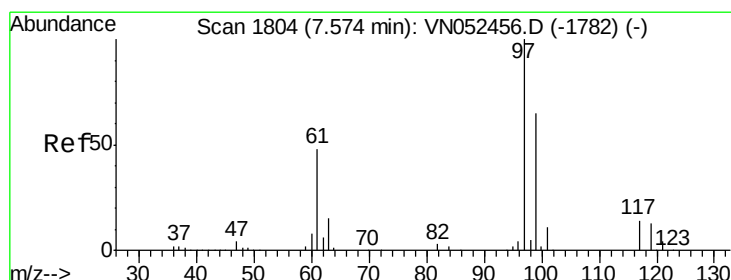
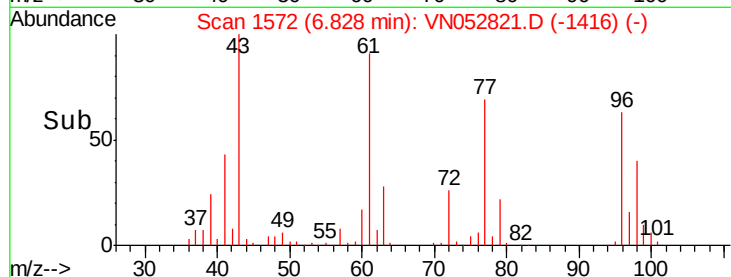
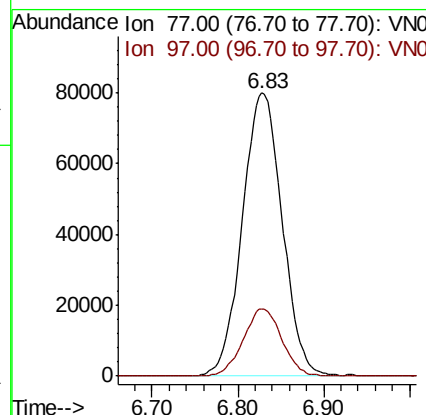
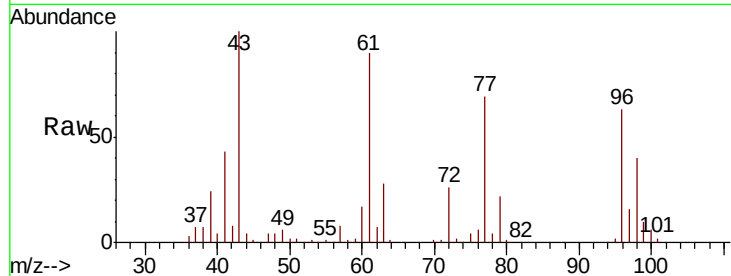
#31
 2,2-Dichloropropane
 Concen: 20.632 ug/l
 RT: 6.83 min Scan# 1572
 Delta R.T. 0.00 min
 Lab File: VN052821.D
 Acq: 12 Dec 2018 12:29

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1212WBSD01

Tot Ion: 77 Resp: 257736
 Ion Ratio Lower Upper
 77 100
 97 23.1 18.7 28.1

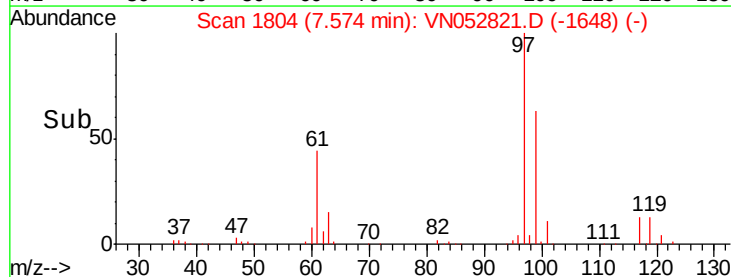
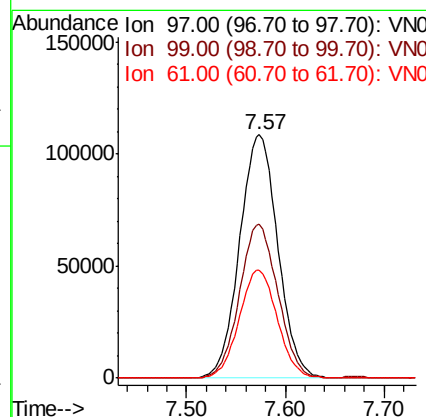
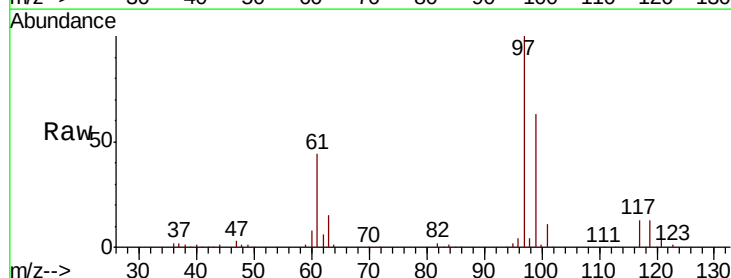
Manual Integrations
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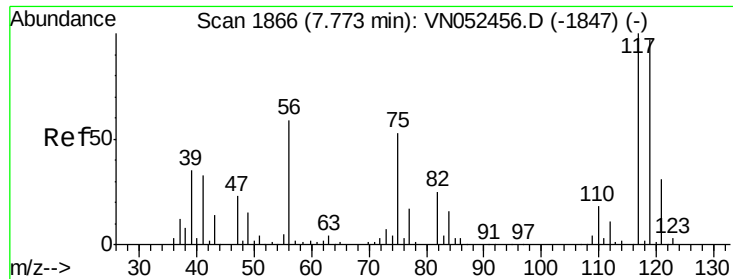
MMDadoda
 12/13/2018 1:29:27 PM



#32
 1,1,1-Trichloroethane
 Concen: 20.666 ug/l
 RT: 7.57 min Scan# 1804
 Delta R.T. 0.00 min
 Lab File: VN052821.D
 Acq: 12 Dec 2018 12:29

Tgt Ion: 97 Resp: 291773
 Ion Ratio Lower Upper
 97 100
 99 63.5 50.9 76.3
 61 44.3 38.1 57.1





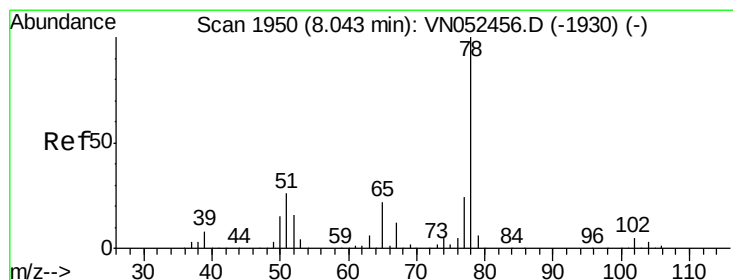
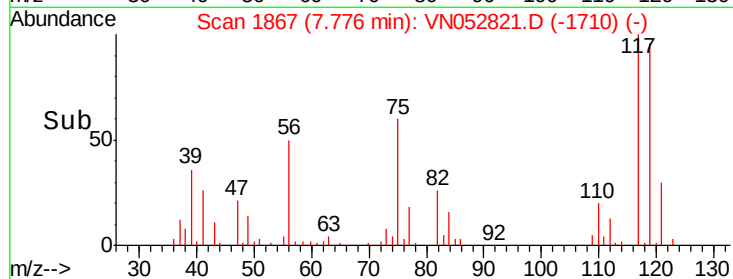
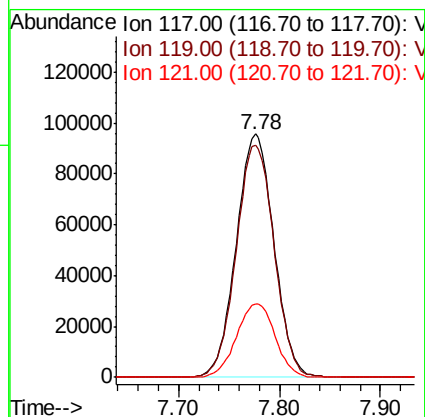
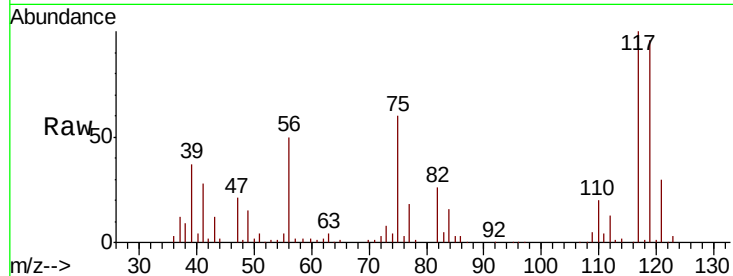
#33
Carbon Tetrachloride
Concen: 20.043 ug/l
RT: 7.78 min Scan# 1867
Delta R.T. 0.00 min
Lab File: VN052821.D
Acq: 12 Dec 2018 12:29

Instrument :
MSVOA_N
ClientSampleId :
VN1212WBSD01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
117	100		247602		
119	95.6	77.3	115.9		
121	30.2	24.9	37.3		

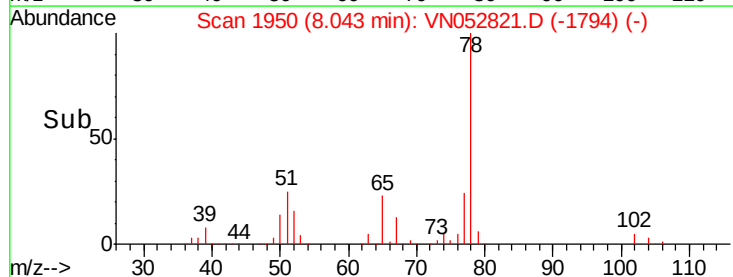
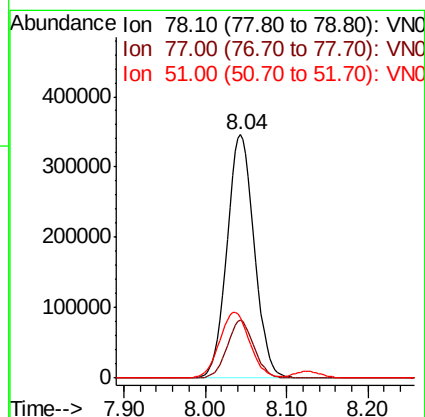
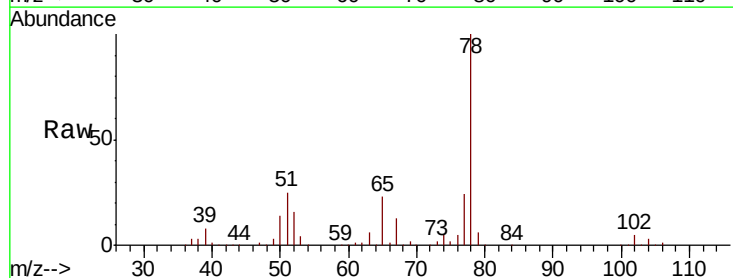
Manual Integrations
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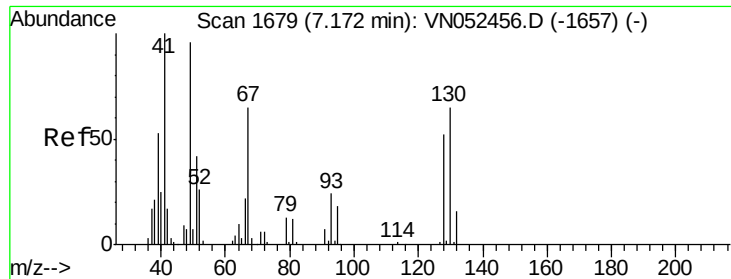
MMDadoda
12/13/2018 1:29:27 PM



#34
Benzene
Concen: 19.976 ug/l
RT: 8.04 min Scan# 1950
Delta R.T. 0.00 min
Lab File: VN052821.D
Acq: 12 Dec 2018 12:29

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
78	100		814950		
77	23.7	19.0	28.6		
51	24.6	20.5	30.7		





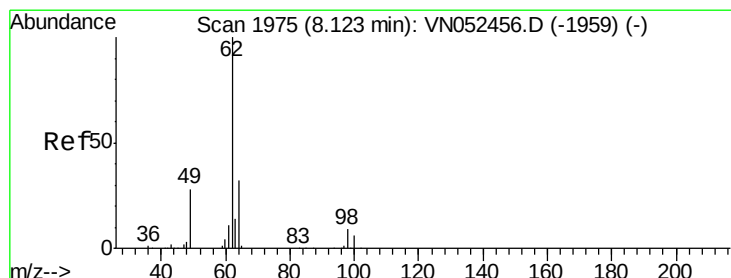
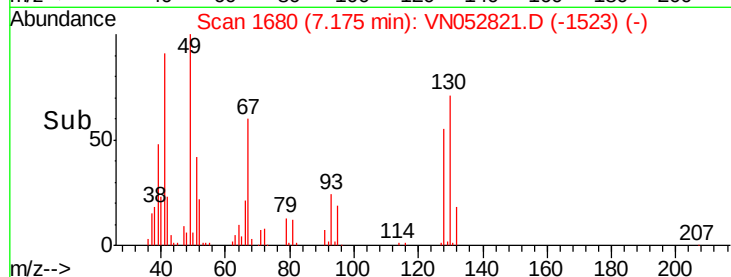
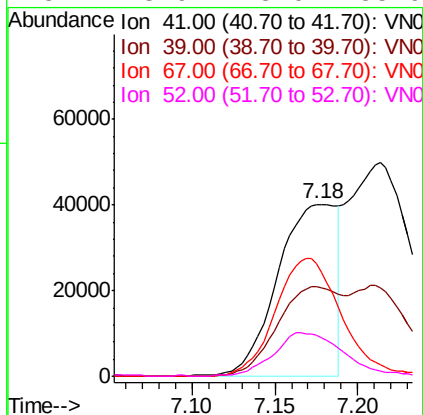
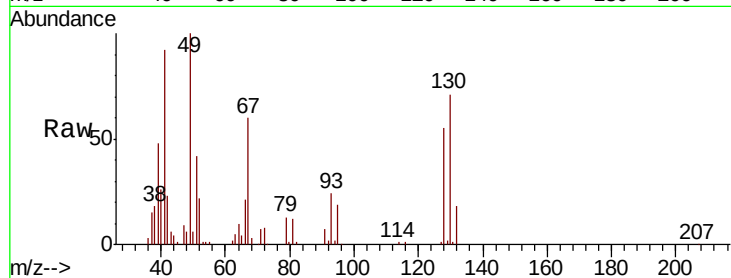
#35
Methacrylonitrile
Concen: 22.161 ug/l
RT: 7.18 min Scan# 1680
Delta R.T. 0.00 min
Lab File: VN052821.D
Acq: 12 Dec 2018 12:29

Instrument :
MSVOA_N
ClientSampleId :
VN1212WBSD01

Tot Ion	Ratio	Lower	Upper
41	100		
39	52.0	26.6	79.7
67	65.8	32.3	96.9
52	23.9	13.0	38.9

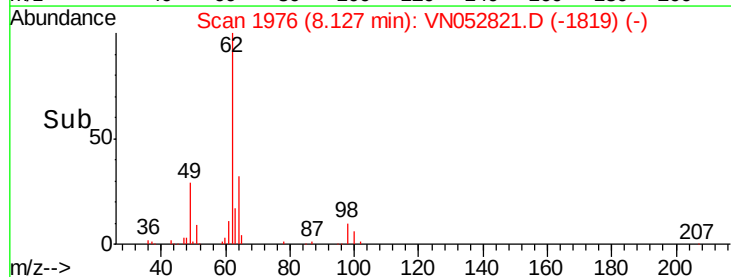
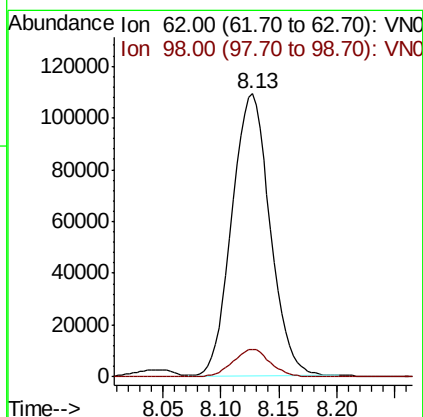
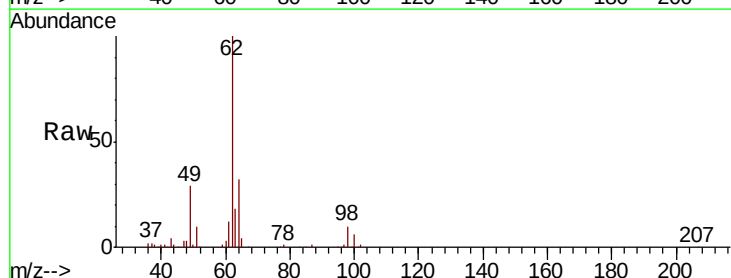
Manual Integrations
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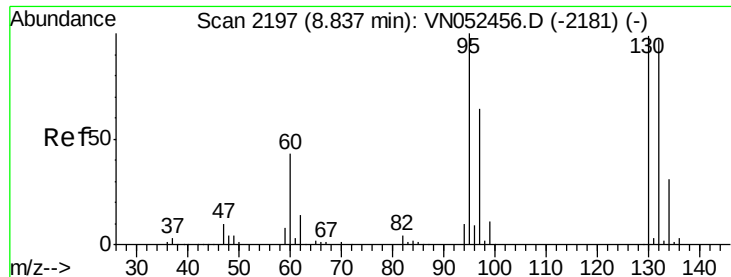
MMDadoda
12/13/2018 1:29:27 PM



#36
1,2-Dichloroethane
Concen: 20.175 ug/l
RT: 8.13 min Scan# 1976
Delta R.T. 0.00 min
Lab File: VN052821.D
Acq: 12 Dec 2018 12:29

Tgt Ion	Ratio	Lower	Upper
62	100		
98	9.7	7.4	11.2





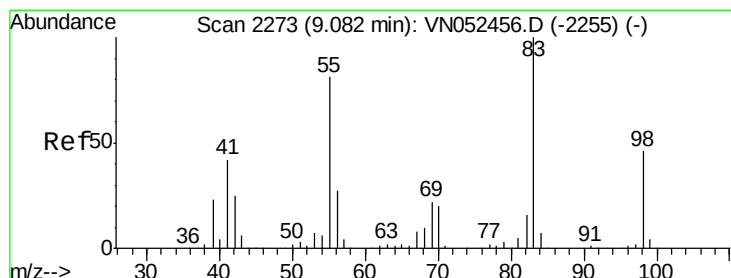
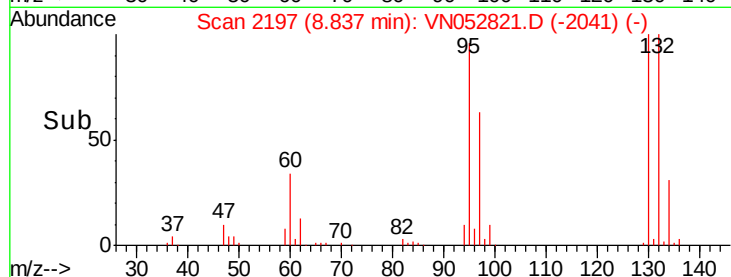
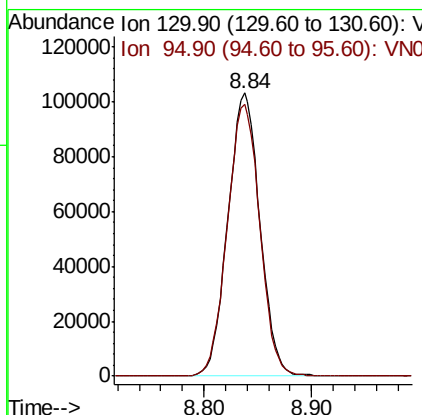
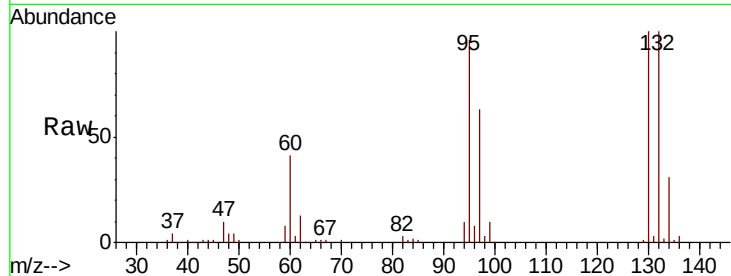
#37
 Trichloroethene
 Concen: 20.634 ug/l
 RT: 8.84 min Scan# 2197
 Delta R.T. 0.00 min
 Lab File: VN052821.D
 Acq: 12 Dec 2018 12:29

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1212WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
130	100	213451		
95	96.0	81.0	121.4	

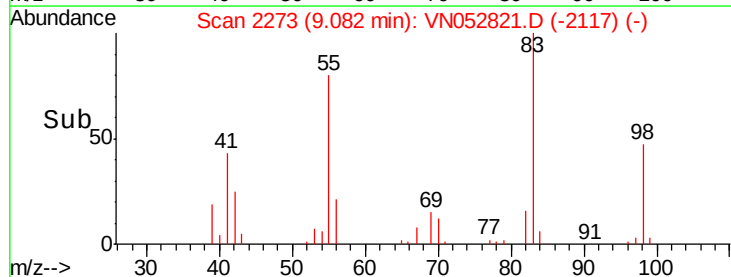
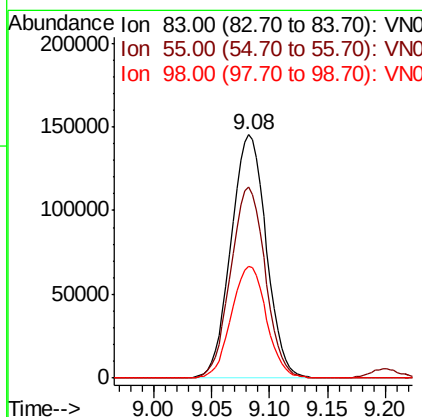
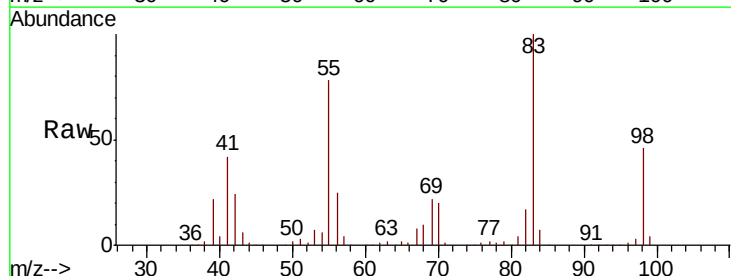
Manual Integrations
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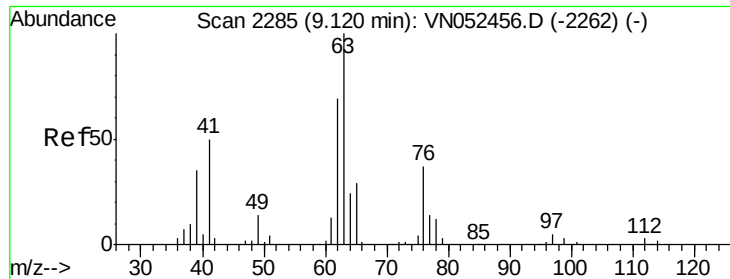
MMDadoda
 12/13/2018 1:29:27 PM



#38
 Methylcyclohexane
 Concen: 18.227 ug/l
 RT: 9.08 min Scan# 2273
 Delta R.T. 0.00 min
 Lab File: VN052821.D
 Acq: 12 Dec 2018 12:29

Tgt Ion	Ratio	Resp	Lower	Upper
83	100	306166		
55	77.1	39.8	119.4	
98	45.7	22.9	68.5	





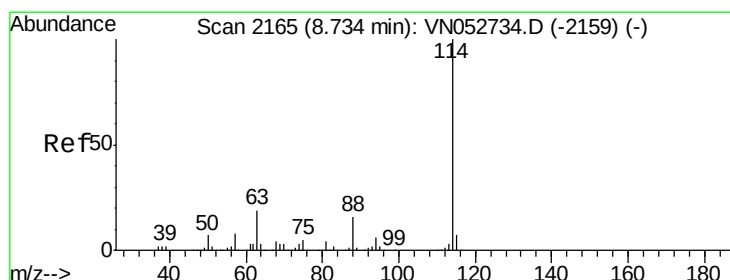
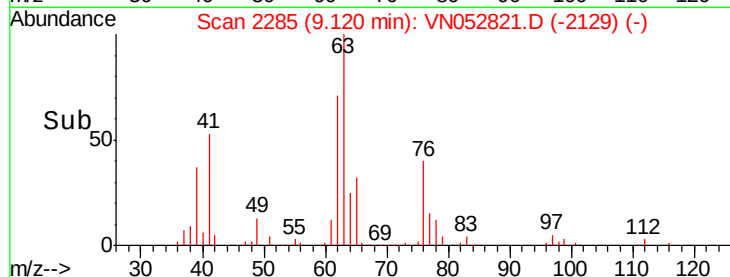
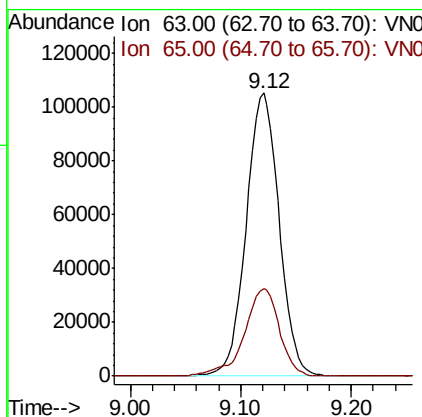
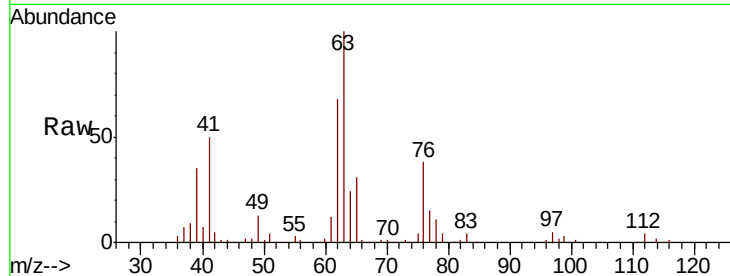
#39
 1,2-Dichloropropane
 Concen: 19.920 ug/l
 RT: 9.12 min Scan# 2285
 Delta R.T. 0.00 min
 Lab File: VN052821.D
 Acq: 12 Dec 2018 12:29

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1212WBSD01

Tot Ion: 63 Resp: 217835
 Ion Ratio Lower Upper
 63 100
 65 30.7 23.6 35.4

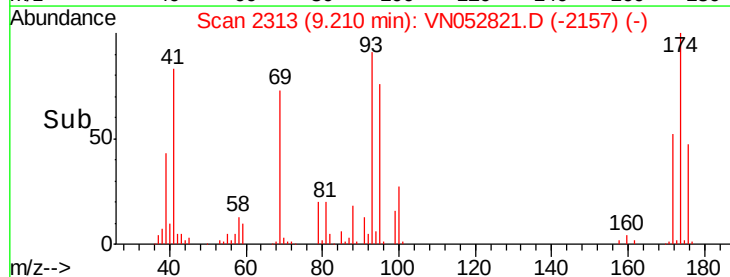
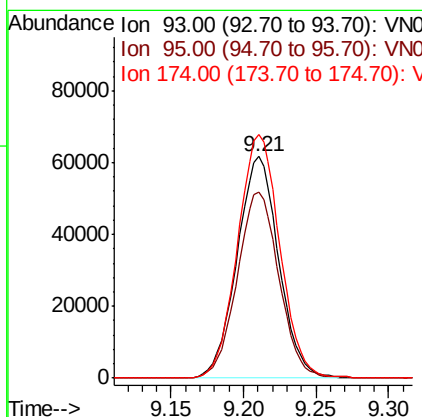
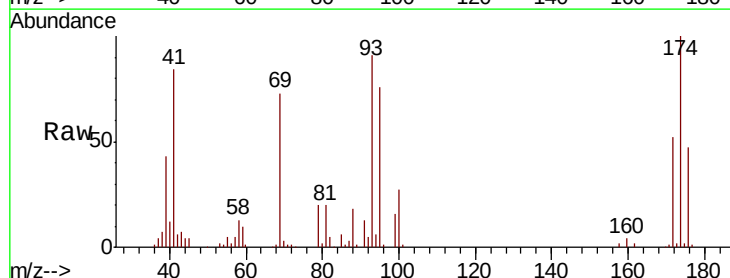
Manual Integrations
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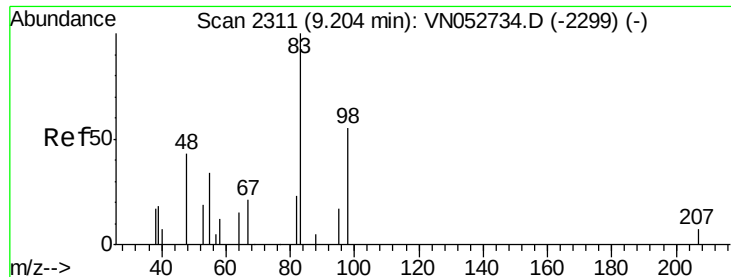
MMDadoda
 12/13/2018 1:29:27 PM



#40
 Dibromomethane
 Concen: 20.910 ug/l
 RT: 9.21 min Scan# 2313
 Delta R.T. 0.00 min
 Lab File: VN052821.D
 Acq: 12 Dec 2018 12:29

Tgt Ion: 93 Resp: 123565
 Ion Ratio Lower Upper
 93 100
 95 84.0 0.0 168.4
 174 111.3 0.0 210.0





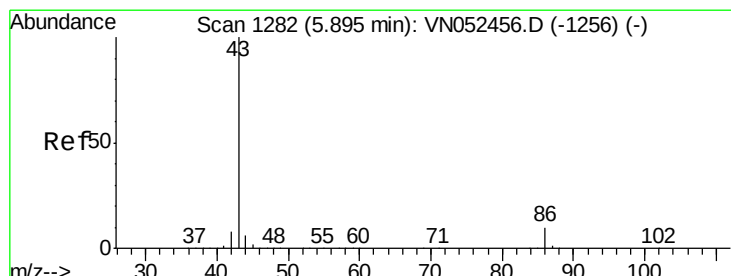
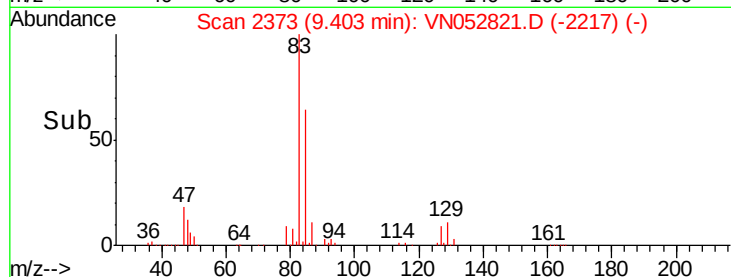
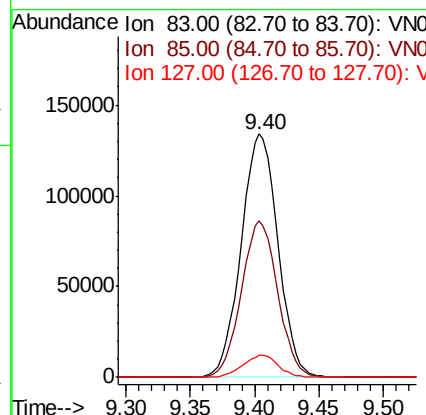
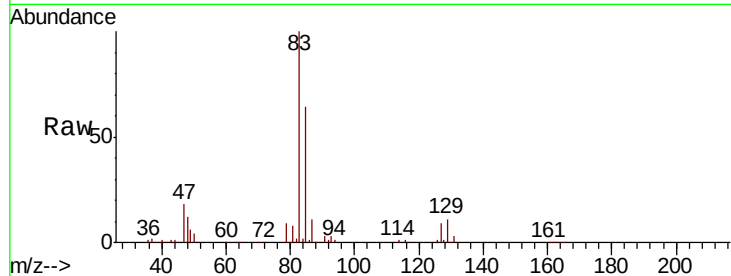
#41
Bromodichloromethane
Concen: 20.359 ug/l
RT: 9.40 min Scan# 2373
Delta R.T. 0.00 min
Lab File: VN052821.D
Acq: 12 Dec 2018 12:29

Instrument :
MSVOA_N
ClientSampleId :
VN1212WBSD01

Tot Ion	83	Resp	265812
Ion Ratio	100	Lower	Upper
83	100		
85	64.3	52.4	78.6
127	8.9	6.6	9.8

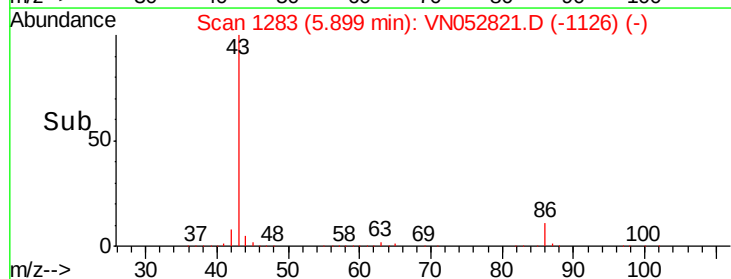
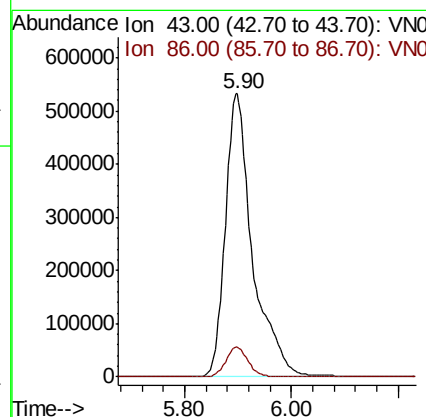
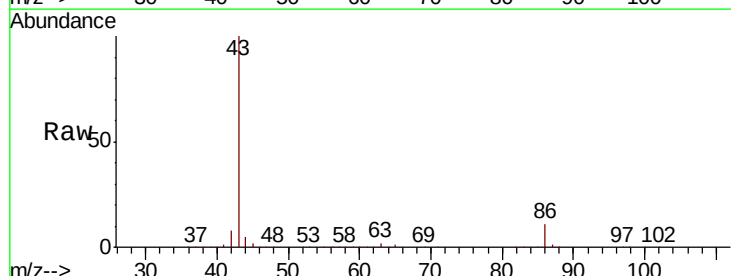
Manual Integrations
APPROVED

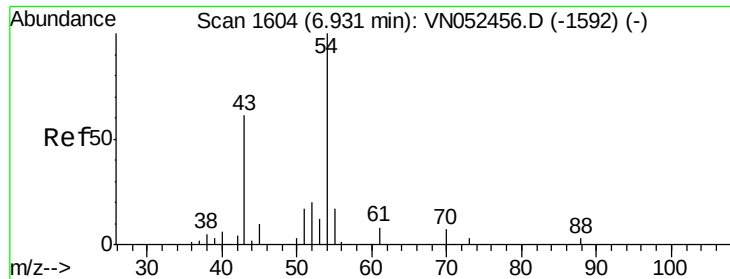
MMDadoda
12/13/2018 1:29:27 PM



#42
Vinyl Acetate
Concen: 96.200 ug/l
RT: 5.90 min Scan# 1283
Delta R.T. 0.00 min
Lab File: VN052821.D
Acq: 12 Dec 2018 12:29

Tgt Ion	43	Resp	1889859
Ion Ratio	100	Lower	Upper
43	100		
86	8.7	6.5	9.7





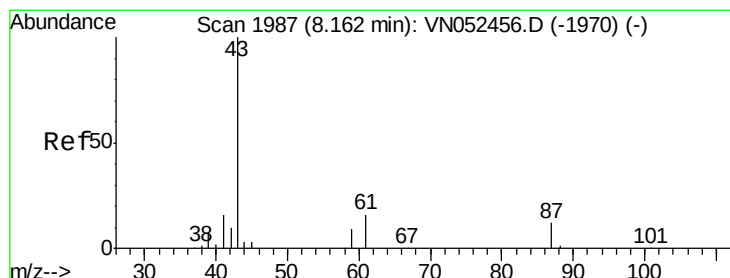
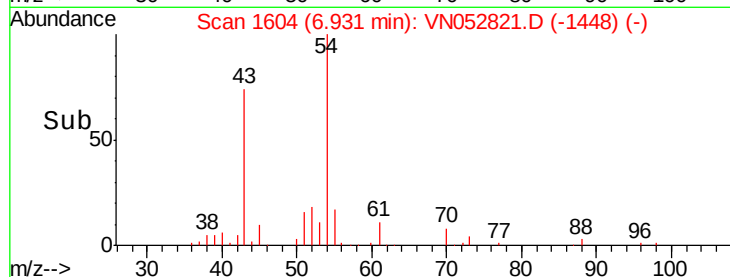
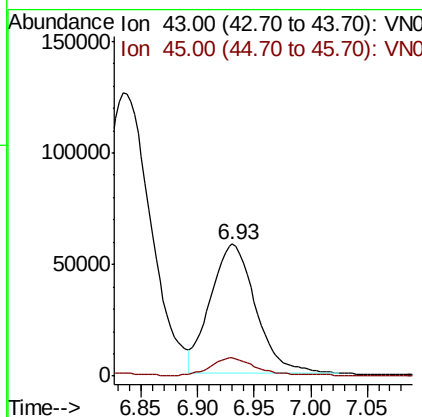
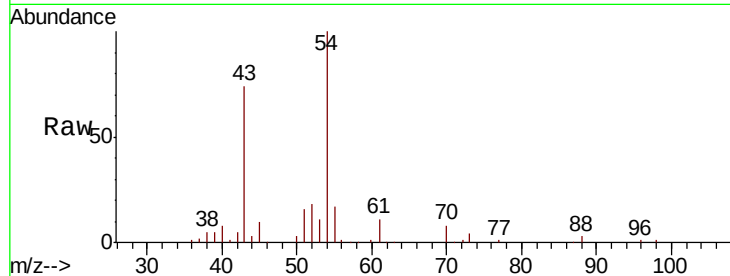
#43
Ethyl Acetate
Concen: 20.901 ug/l
RT: 6.93 min Scan# 1604
Delta R.T. 0.00 min
Lab File: VN052821.D
Acq: 12 Dec 2018 12:29

Instrument :
MSVOA_N
ClientSampleId :
VN1212WBSD01

Tot Ion: 43 Resp: 161365
Ion Ratio Lower Upper
43 100
45 13.7 1.0 1.6#

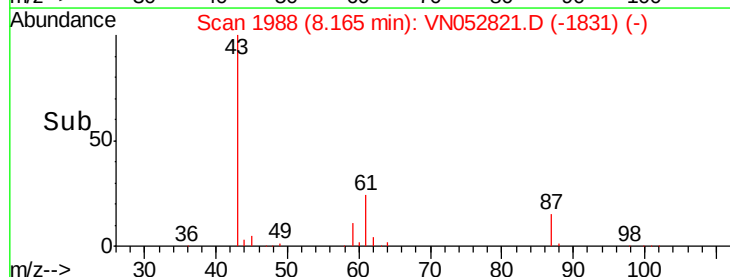
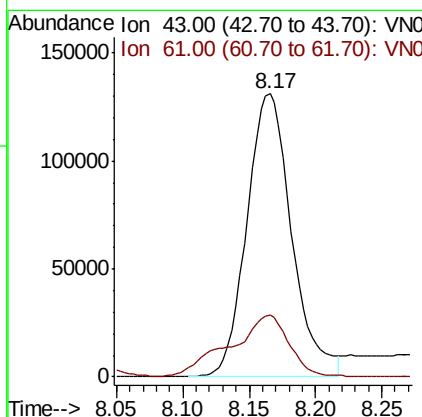
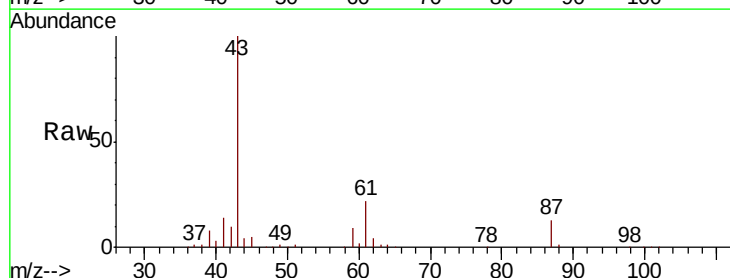
Manual Integrations
APPROVED

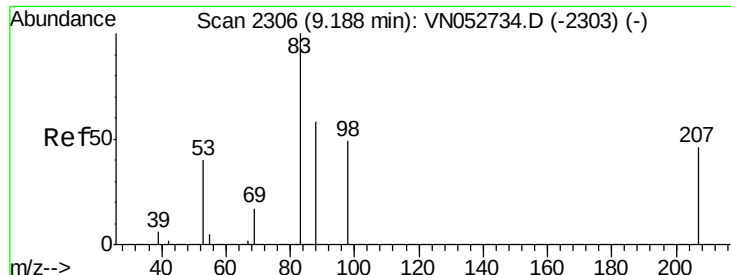
MMDadoda
12/13/2018 1:29:27 PM



#44
Isopropyl Acetate
Concen: 22.627 ug/l
RT: 8.17 min Scan# 1988
Delta R.T. 0.00 min
Lab File: VN052821.D
Acq: 12 Dec 2018 12:29

Tgt Ion: 43 Resp: 306381
Ion Ratio Lower Upper
43 100
61 28.1 16.0 24.0#





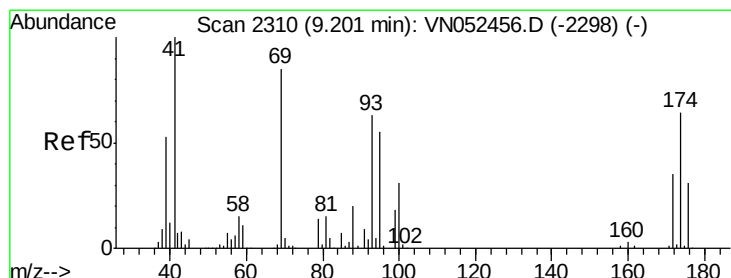
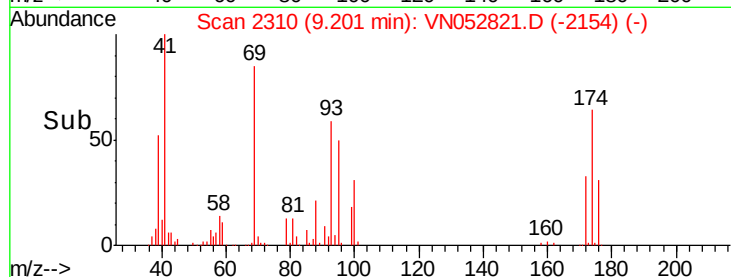
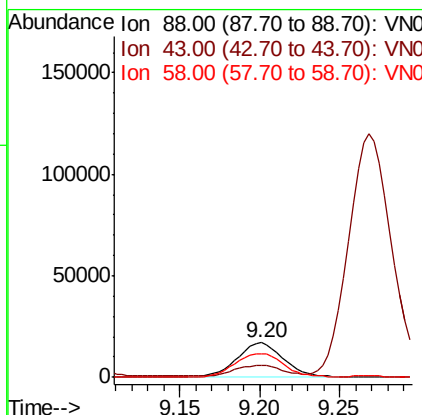
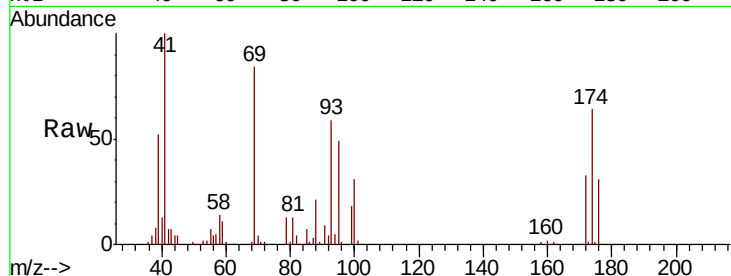
#45
 1,4-Dioxane
 Concen: 459.349 ug/l
 RT: 9.20 min Scan# 2310
 Delta R.T. 0.00 min
 Lab File: VN052821.D
 Acq: 12 Dec 2018 12:29

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1212WBSD01

Tot Ion	Ratio	Lower	Upper
88	100		
43	31.9	29.5	44.3
58	72.4	61.5	92.3

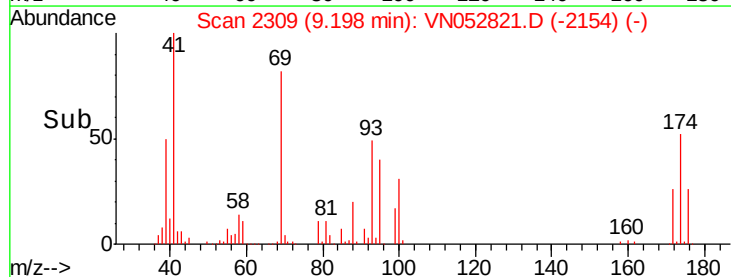
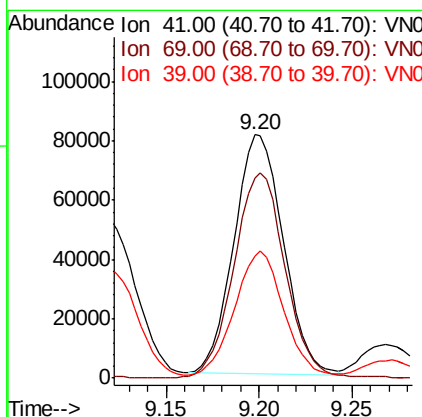
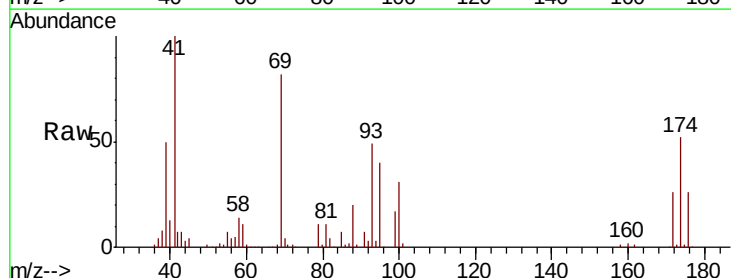
Manual Integrations
 APPROVED

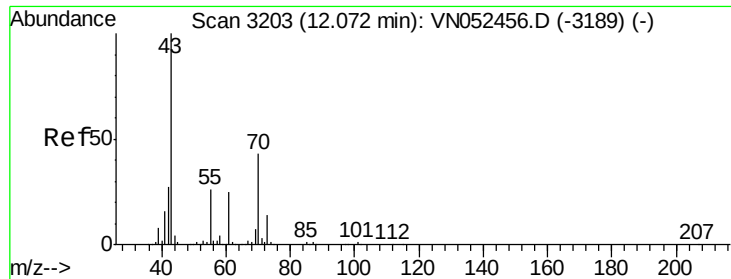
MMDadoda
 12/13/2018 1:29:27 PM



#46
 Methyl methacrylate
 Concen: 21.271 ug/l
 RT: 9.20 min Scan# 2309
 Delta R.T. -0.00 min
 Lab File: VN052821.D
 Acq: 12 Dec 2018 12:29

Tgt Ion	Ratio	Lower	Upper
41	100		
69	82.8	42.5	127.6
39	50.1	26.3	78.9





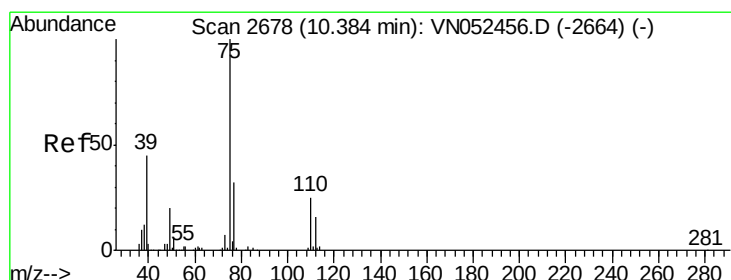
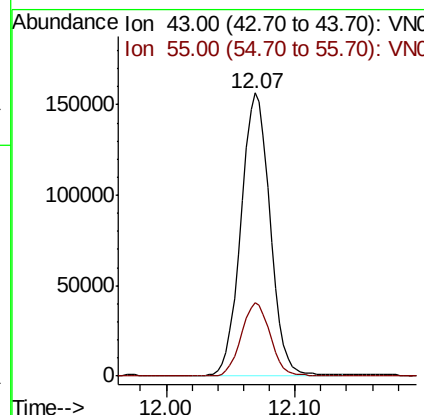
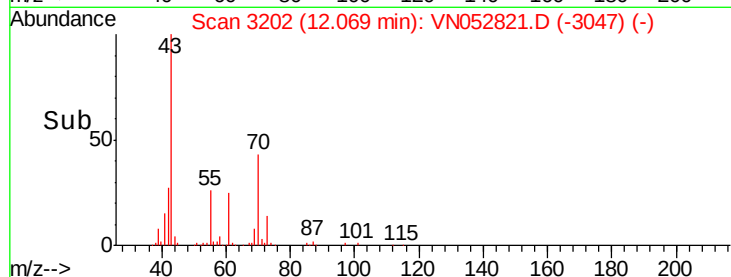
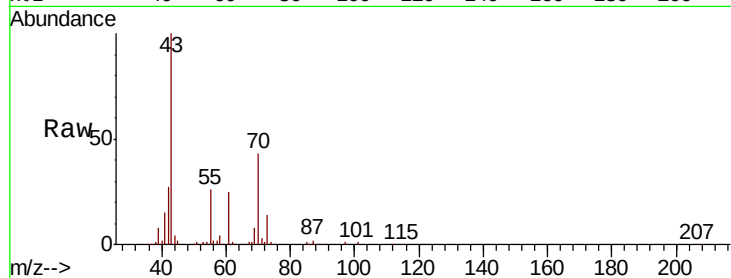
#47
n-amvl Acetate
Concen: 21.826 ug/l
RT: 12.07 min Scan# 3202
Delta R.T. -0.00 min
Lab File: VN052821.D
Acq: 12 Dec 2018 12:29

Instrument :
MSVOA_N
ClientSampleId :
VN1212WBSD01

Tot Ion	Ratio	Lower	Upper
43	100		
55	26.1	21.1	31.7

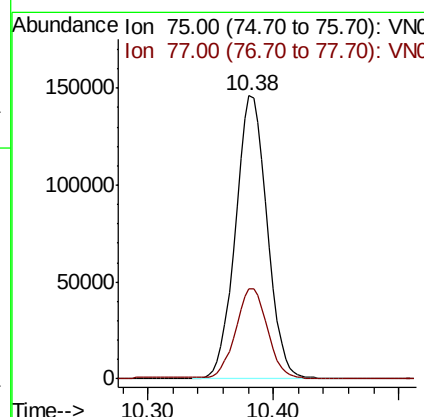
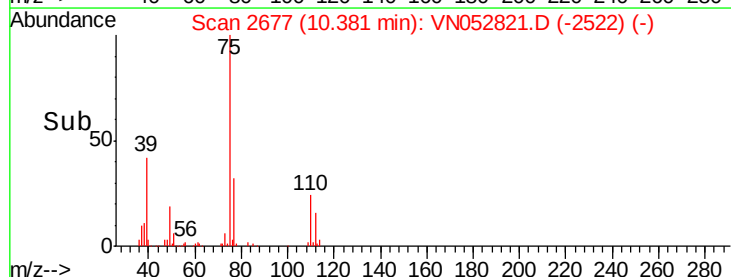
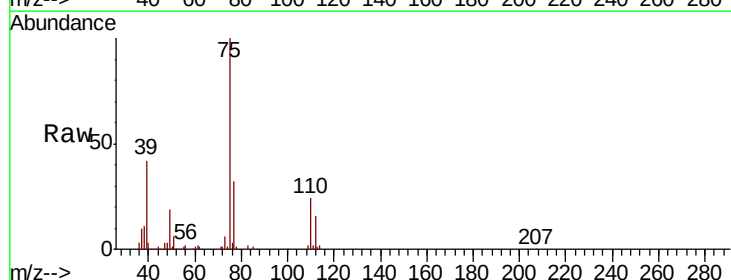
Manual Integrations
APPROVED

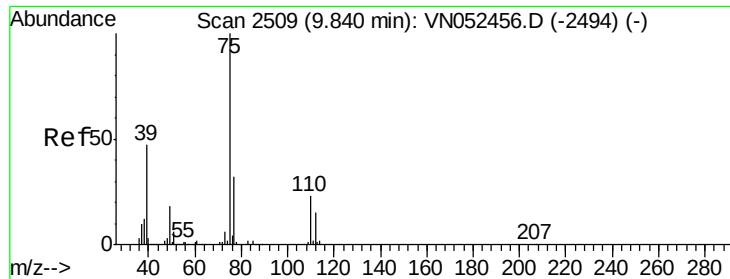
MMDadoda
12/13/2018 1:29:27 PM



#48
t-1,3-Dichloropropene
Concen: 20.228 ug/l
RT: 10.38 min Scan# 2677
Delta R.T. -0.00 min
Lab File: VN052821.D
Acq: 12 Dec 2018 12:29

Tgt Ion	Ratio	Lower	Upper
75	100		
77	31.6	25.6	38.4





#49

cis-1,3-Dichloropropene

Concen: 19.774 ug/l

RT: 9.84 min Scan# 2509

Delta R.T. 0.00 min

Lab File: VN052821.D

Acq: 12 Dec 2018 12:29

Instrument :

MSVOA_N

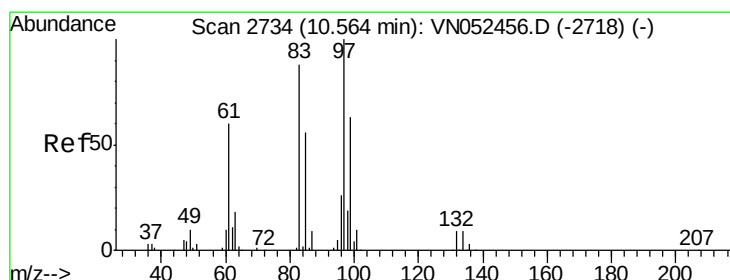
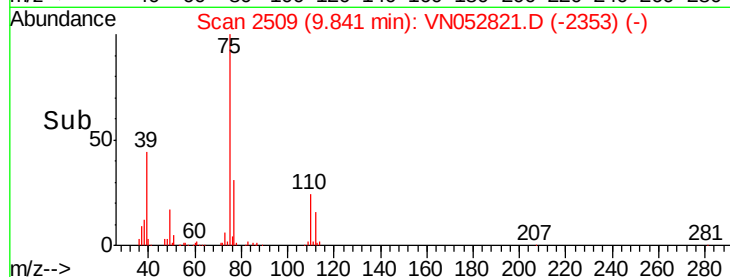
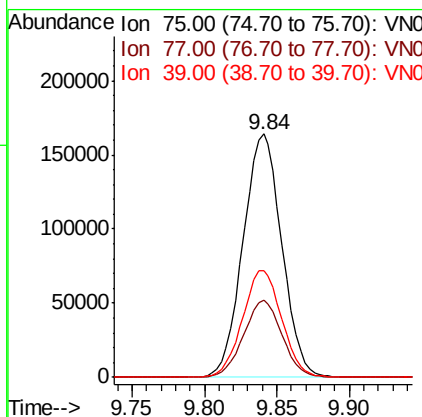
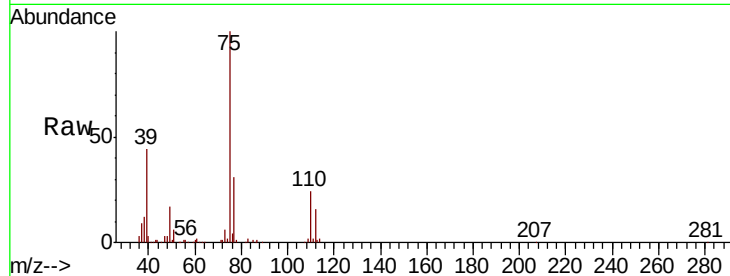
ClientSampleId :

VN1212WBSD01

Tot Ion:	75	Resp:	304992
Ion	Ratio	Lower	Upper
75	100		
77	31.5	25.4	38.0
39	43.9	37.3	55.9

Manual Integrations
APPROVED

MMDadoda
12/13/2018 1:29:27 PM



#50

1,1,2-Trichloroethane

Concen: 21.176 ug/l

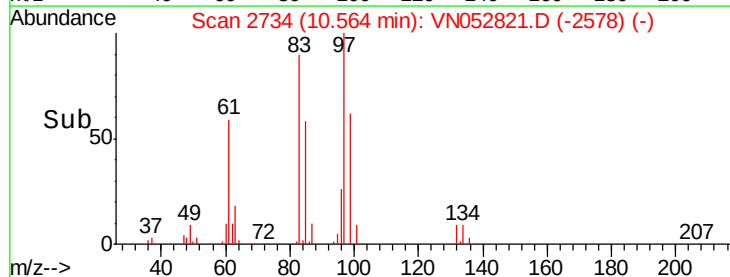
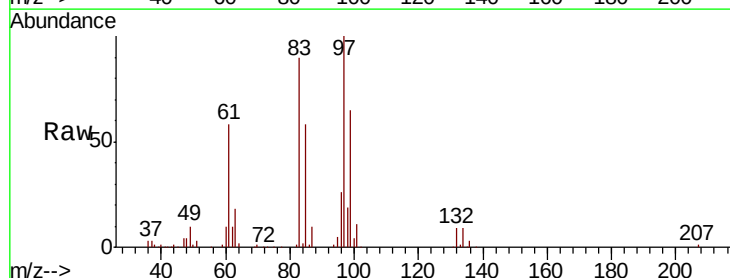
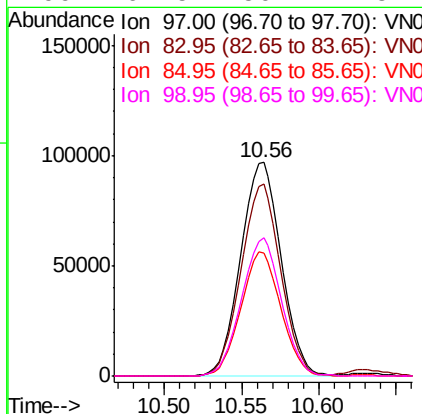
RT: 10.56 min Scan# 2734

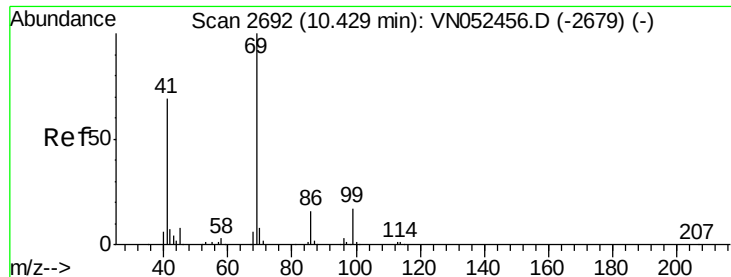
Delta R.T. 0.00 min

Lab File: VN052821.D

Acq: 12 Dec 2018 12:29

Tgt Ion:	97	Resp:	177386
Ion	Ratio	Lower	Upper
97	100		
83	89.6	70.4	105.6
85	57.8	45.0	67.6
99	64.5	50.2	75.2





#51

Ethyl methacrylate

Concen: 21.740 ug/l

RT: 10.43 min Scan# 2692

Delta R.T. 0.00 min

Lab File: VN052821.D

Acq: 12 Dec 2018 12:29

Instrument :

MSVOA_N

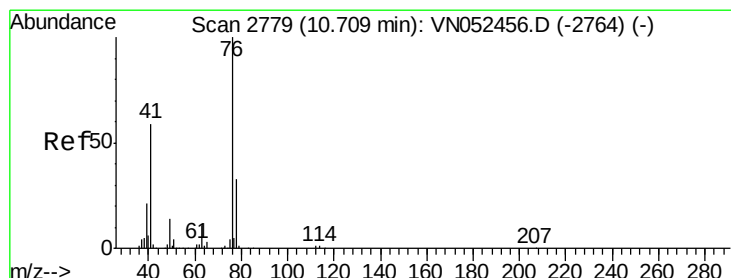
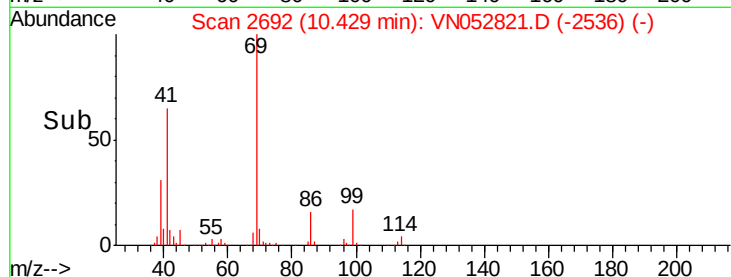
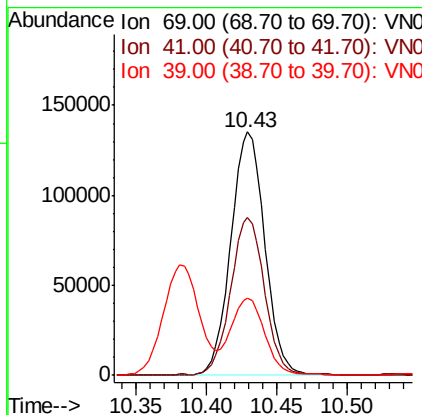
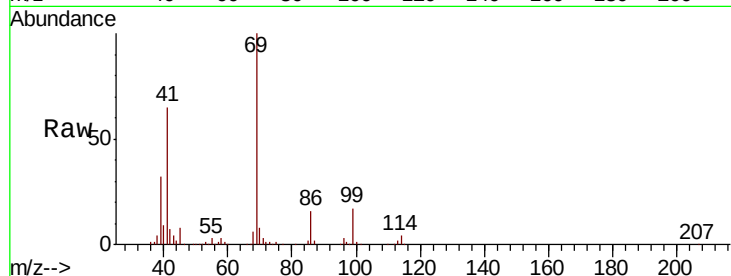
ClientSampleId :

VN1212WBSD01

Tot Ion:	69	Resp:	228721
Ion Ratio	Lower	Upper	
69	100		
41	64.6	34.4	103.3
39	31.4	16.4	49.2

Manual Integrations
APPROVED

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#52

1,3-Dichloropropane

Concen: 20.451 ug/l

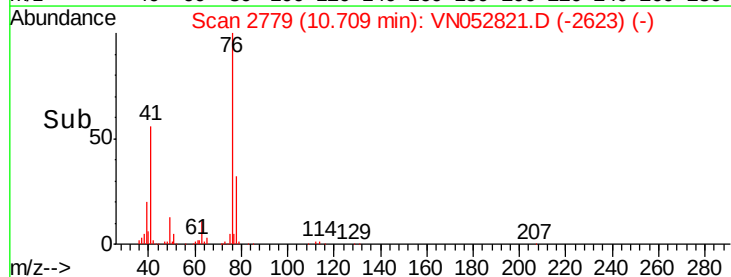
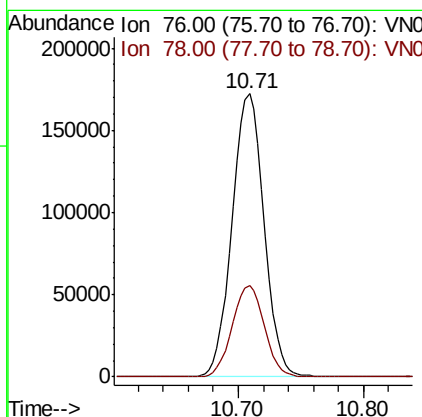
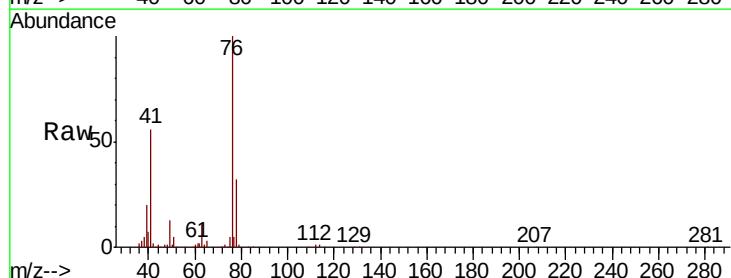
RT: 10.71 min Scan# 2779

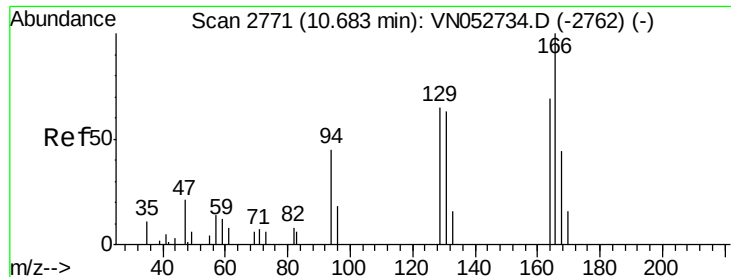
Delta R.T. 0.00 min

Lab File: VN052821.D

Acq: 12 Dec 2018 12:29

Tgt Ion:	76	Resp:	304927
Ion Ratio	Lower	Upper	
76	100		
78	32.4	0.0	64.8





#53

Dibromochloromethane

Concen: 20.946 ug/l

RT: 10.90 min Scan# 2839

Delta R.T. 0.00 min

Lab File: VN052821.D

Acq: 12 Dec 2018 12:29

Instrument :

MSVOA_N

ClientSampleId :

VN1212WBSD01

Tot Ion:129 Resp: 193173

Ion Ratio Lower Upper

129 100

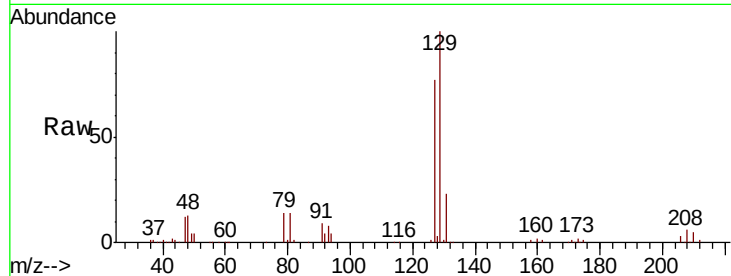
127 76.5 37.6 112.8

Manual Integrations

APPROVED

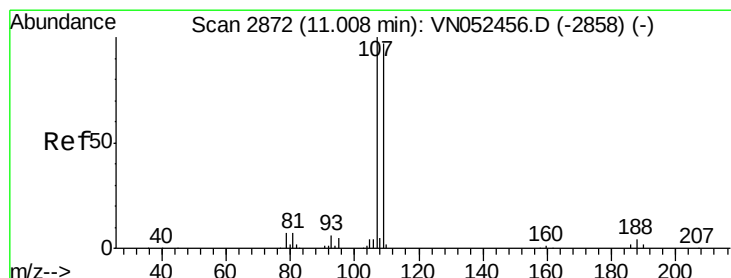
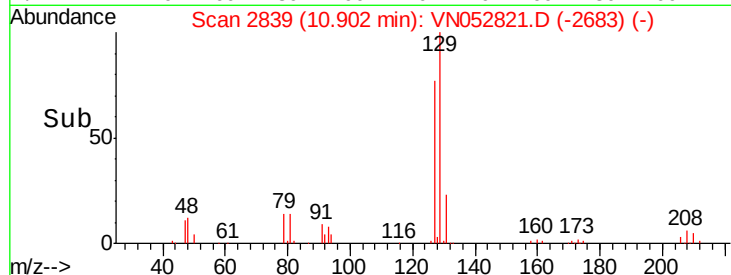
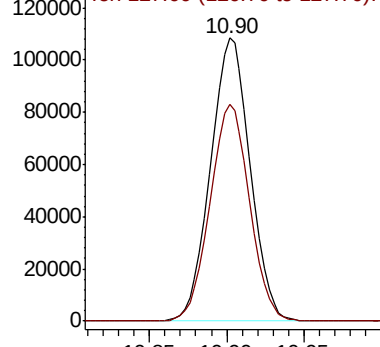
MMDadoda

12/13/2018 1:29:27 PM



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#54

1,2-Dibromoethane

Concen: 21.224 ug/l

RT: 11.01 min Scan# 2872

Delta R.T. 0.00 min

Lab File: VN052821.D

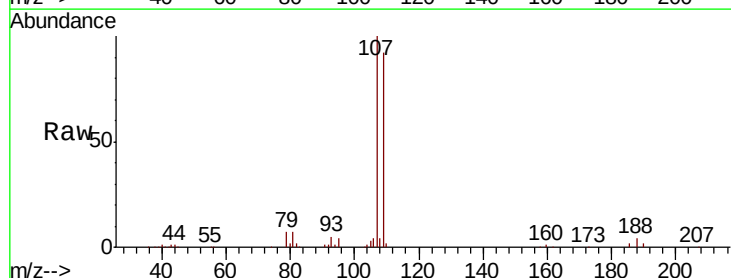
Acq: 12 Dec 2018 12:29

Tgt Ion:107 Resp: 173727

Ion Ratio Lower Upper

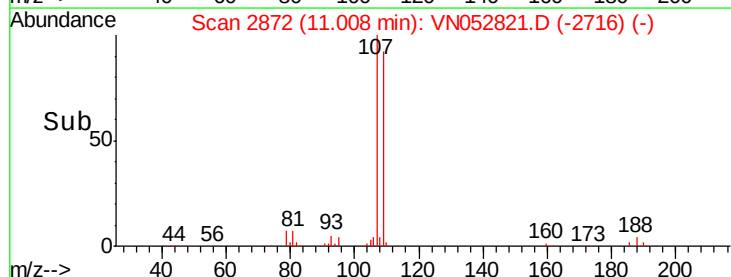
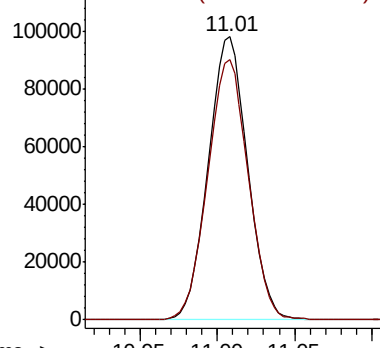
107 100

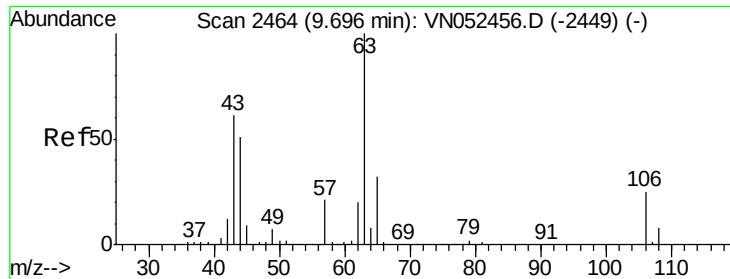
109 94.6 77.1 115.7



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V





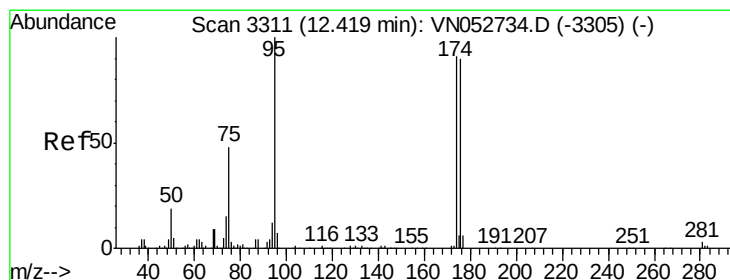
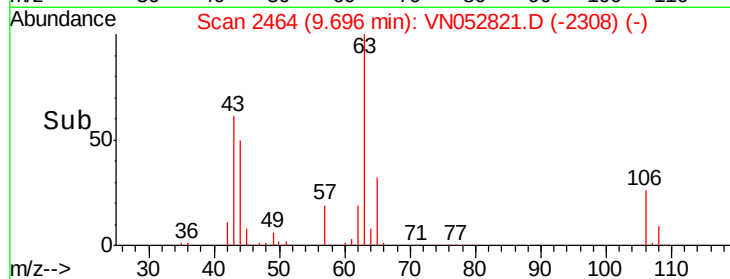
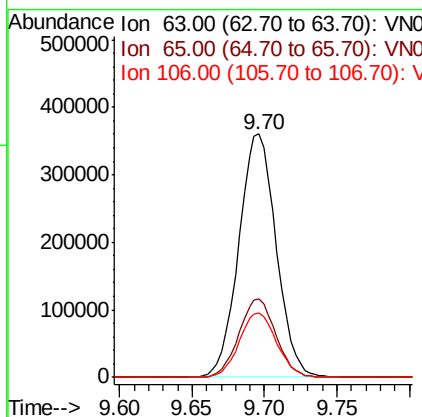
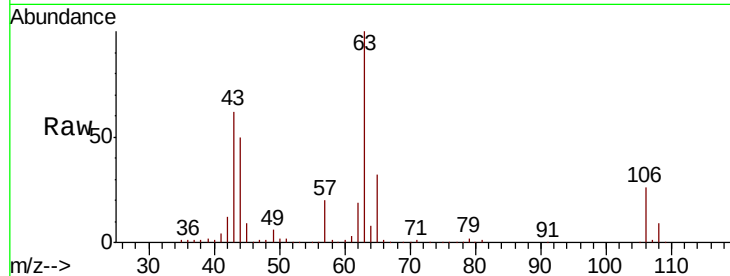
#55
2-Chloroethyl vinyl ether
Concen: 104.780 ug/l
RT: 9.70 min Scan# 2464
Delta R.T. 0.00 min
Lab File: VN052821.D
Acq: 12 Dec 2018 12:29

Instrument :
MSVOA_N
ClientSampleId :
VN1212WBSD01

Tot Ion	Ratio	Lower	Upper
63	100		
65	31.9	25.4	38.2
106	26.6	20.4	30.6

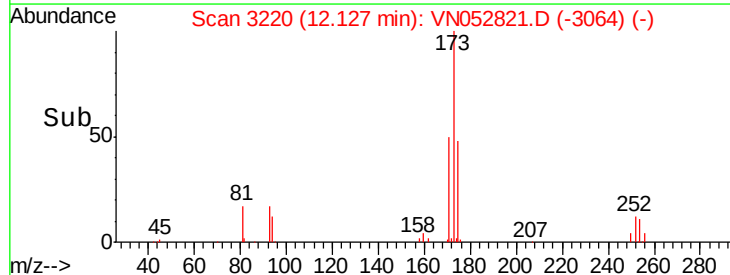
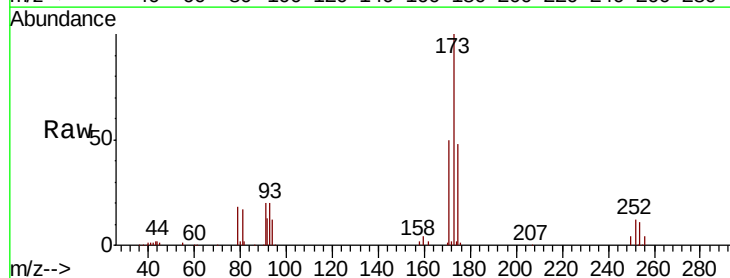
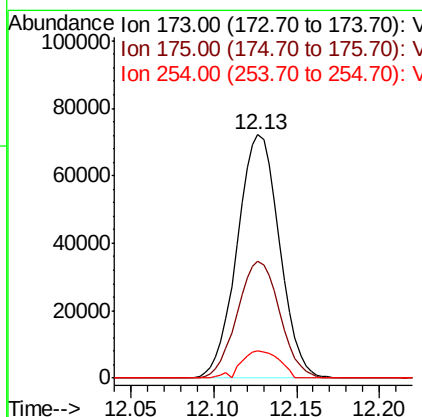
Manual Integrations
APPROVED

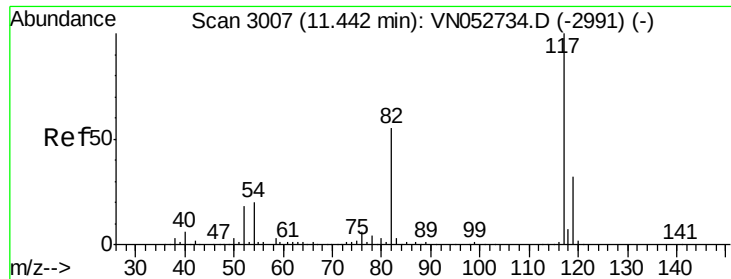
MMDadoda
12/13/2018 1:29:27 PM



#56
Bromoform
Concen: 21.266 ug/l
RT: 12.13 min Scan# 3220
Delta R.T. 0.00 min
Lab File: VN052821.D
Acq: 12 Dec 2018 12:29

Tgt Ion	Ratio	Lower	Upper
173	100		
175	48.2	38.7	58.1
254	9.7	8.4	12.6





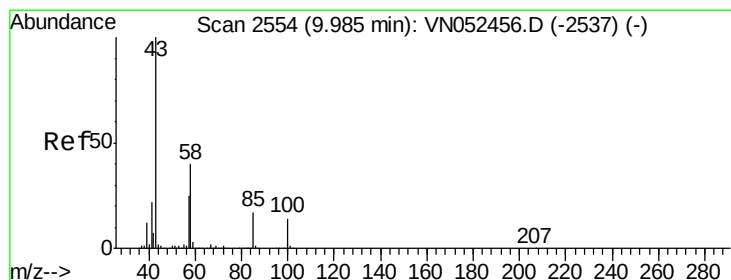
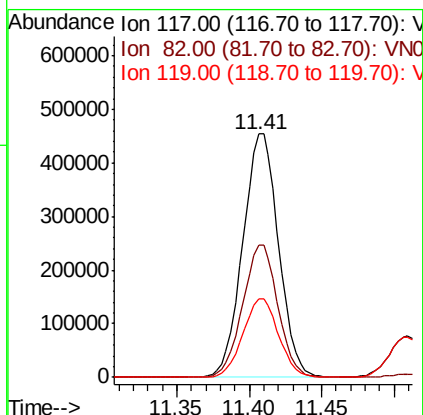
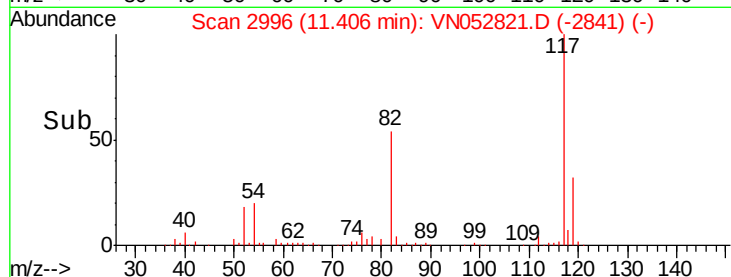
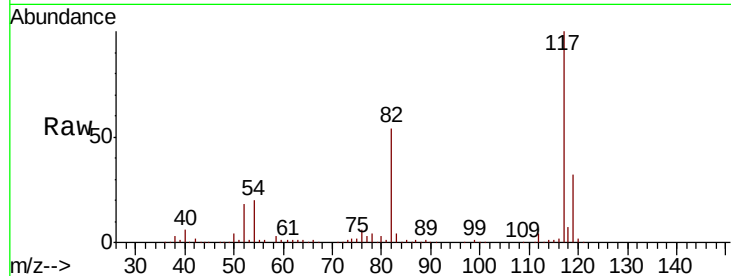
#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN052821.D
Acq: 12 Dec 2018 12:29

Instrument :
MSVOA_N
ClientSampleId :
VN1212WBSD01

Tot Ion	Ratio	Lower	Upper
117	100		
82	53.6	44.2	66.2
119	32.2	25.4	38.2

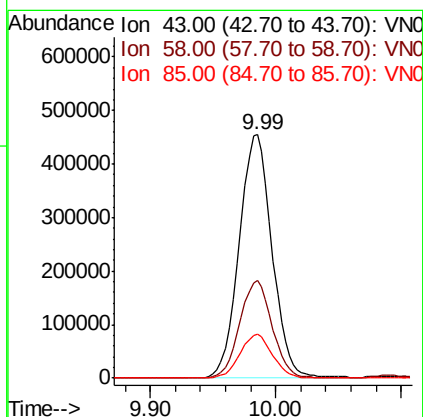
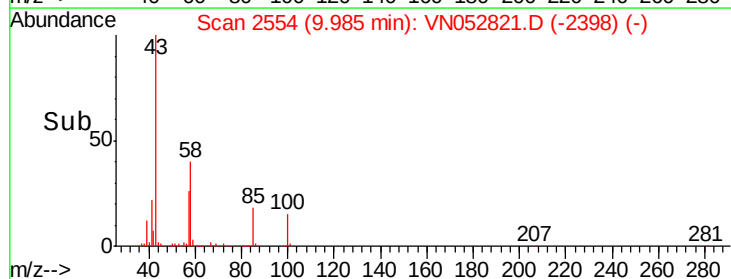
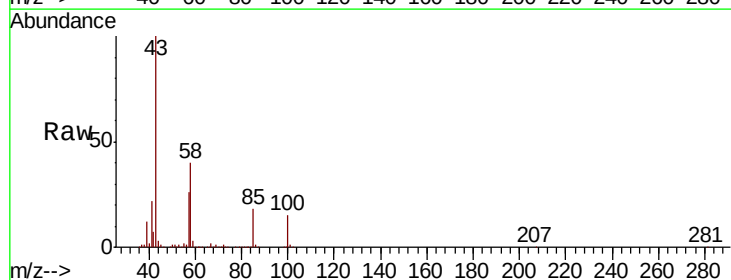
Manual Integrations
APPROVED

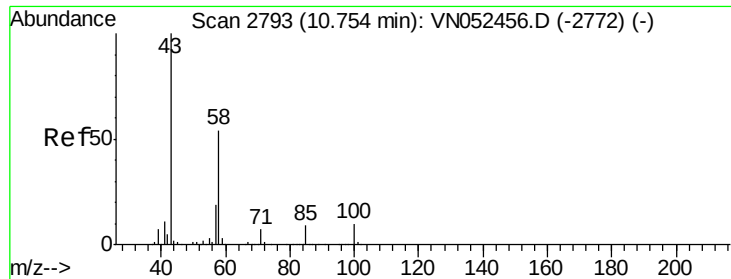
MMDadoda
12/13/2018 1:29:27 PM



#58
4-Methyl-2-Pentanone
Concen: 109.157 ug/l
RT: 9.99 min Scan# 2554
Delta R.T. 0.00 min
Lab File: VN052821.D
Acq: 12 Dec 2018 12:29

Tgt Ion	Ratio	Lower	Upper
43	100		
58	39.9	31.6	47.4
85	17.8	13.3	19.9





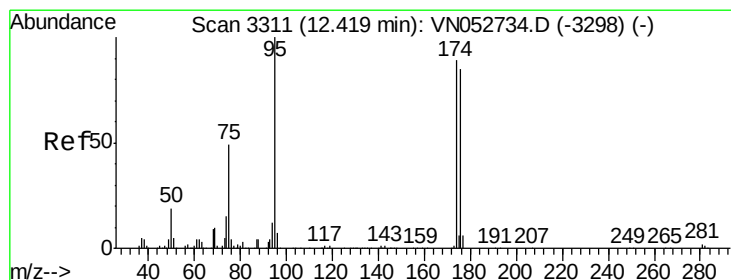
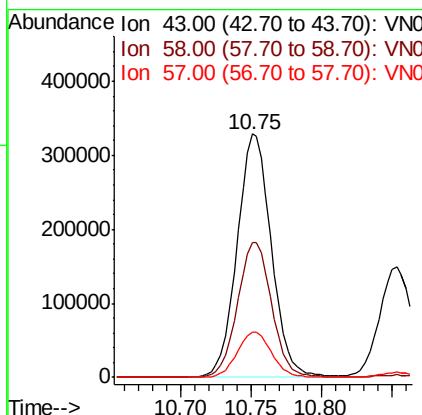
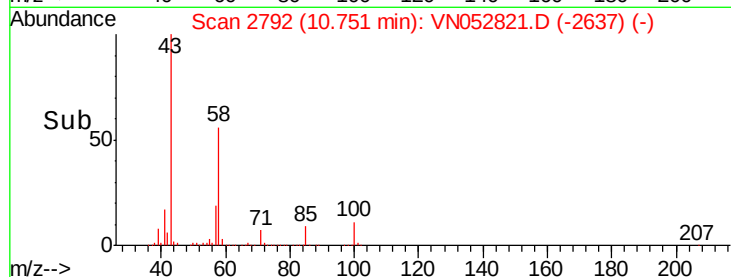
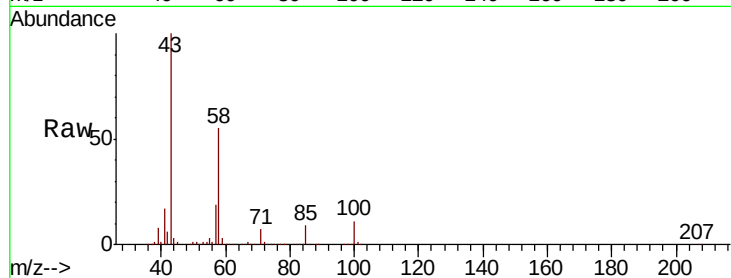
#59
2-Hexanone
Concen: 108.034 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. -0.00 min
Lab File: VN052821.D
Acq: 12 Dec 2018 12:29

Instrument :
MSVOA_N
ClientSampleId :
VN1212WBSD01

Tot Ion	Ratio	Lower	Upper
43	100		
58	55.6	43.2	64.8
57	19.0	14.9	22.3

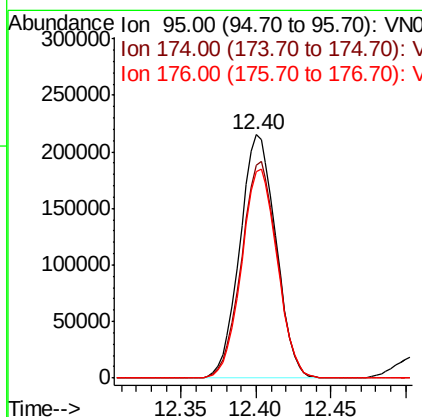
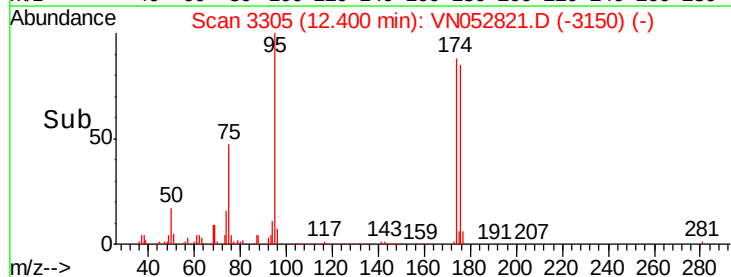
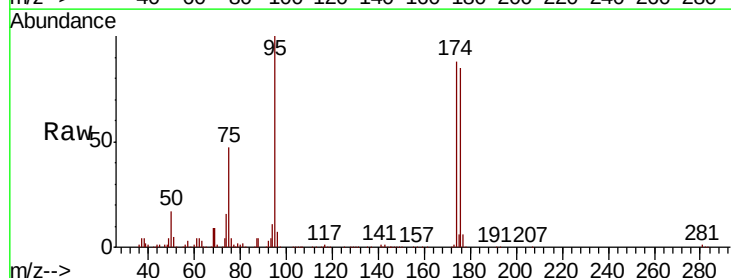
Manual Integrations
APPROVED

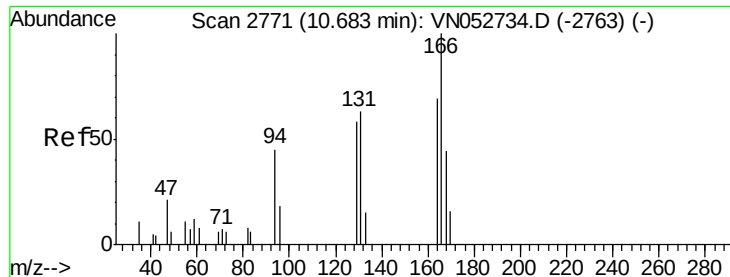
MMDadoda
12/13/2018 1:29:27 PM



#60
4-Bromofluorobenzene
Concen: 108.034 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN052821.D
Acq: 12 Dec 2018 12:29

Tgt Ion	Ratio	Lower	Upper
95	100		
174	88.3	67.9	101.9
176	85.1	66.4	99.6





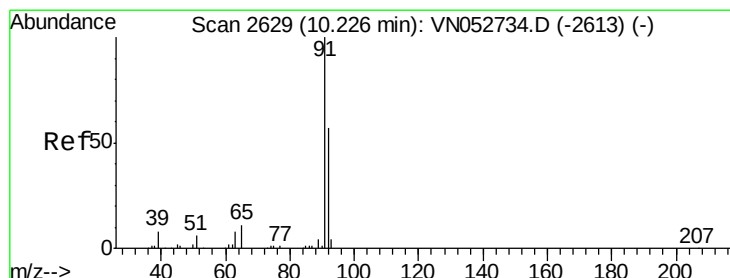
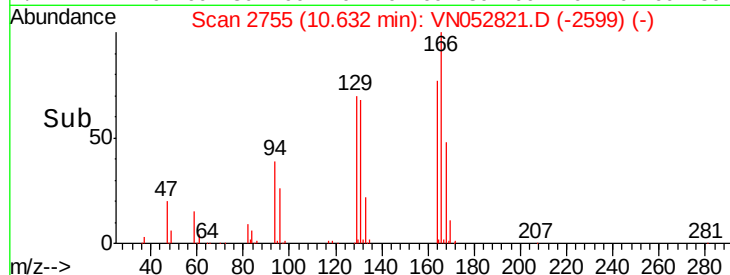
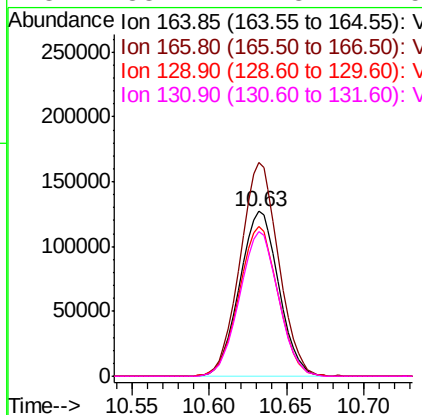
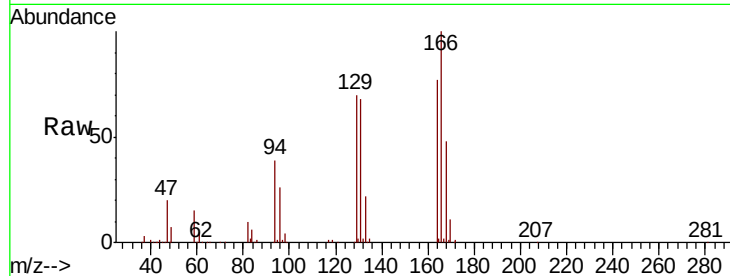
#61
Tetrachloroethene
Concen: 23.407 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. 0.00 min
Lab File: VN052821.D
Acq: 12 Dec 2018 12:29

Instrument :
MSVOA_N
ClientSampleId :
VN1212WBSD01

Tot Ion	Ratio	Lower	Upper
164	100		
166	129.6	104.6	157.0
129	91.0	75.3	112.9
131	88.1	74.3	111.5

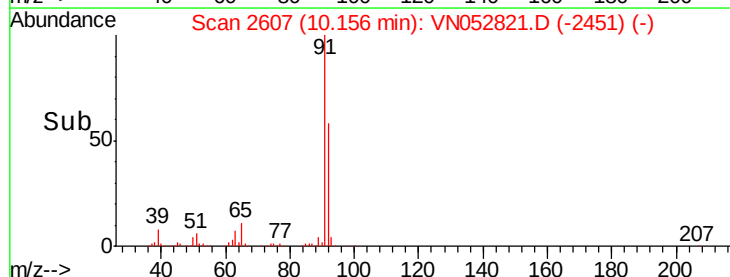
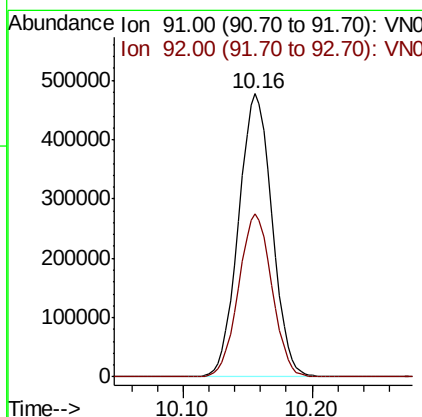
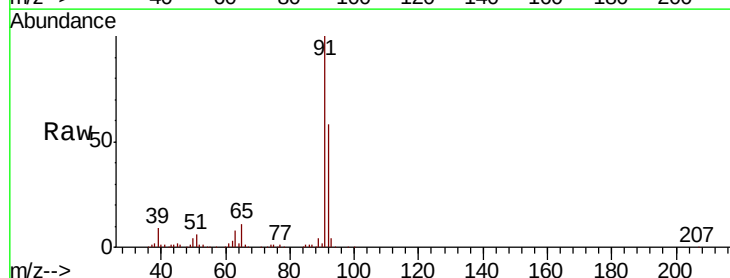
Manual Integrations
APPROVED

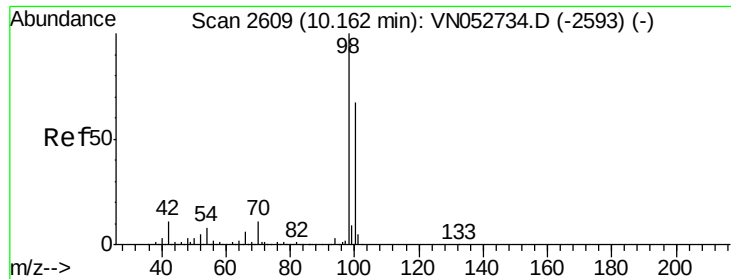
MMDadoda
12/13/2018 1:29:27 PM



#62
Toluene
Concen: 20.097 ug/l
RT: 10.16 min Scan# 2607
Delta R.T. 0.00 min
Lab File: VN052821.D
Acq: 12 Dec 2018 12:29

Tgt Ion	Ratio	Lower	Upper
91	100		
92	57.2	45.4	68.2





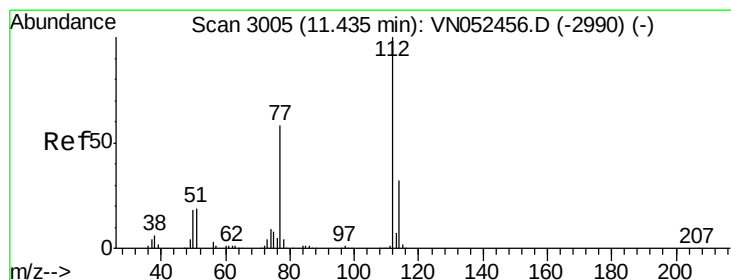
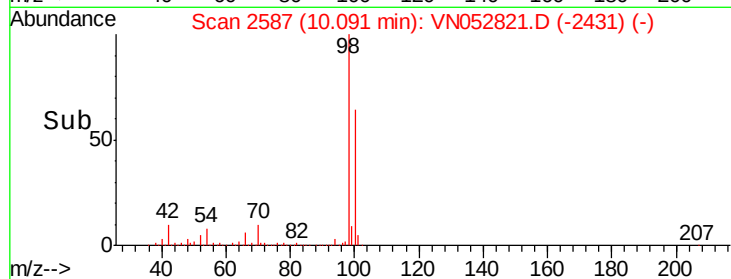
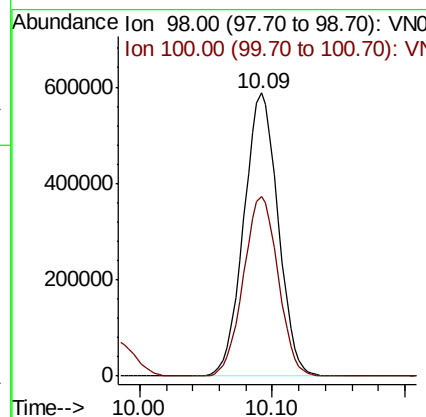
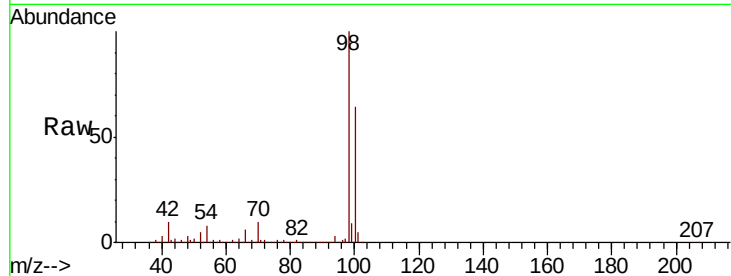
#63
Toluene-d8
Concen: 20.097 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN052821.D
Acq: 12 Dec 2018 12:29

Instrument :
MSVOA_N
ClientSampleId :
VN1212WBSD01

Tot Ion: 98 Resp: 1055172
Ion Ratio Lower Upper
98 100
100 64.3 51.1 76.7

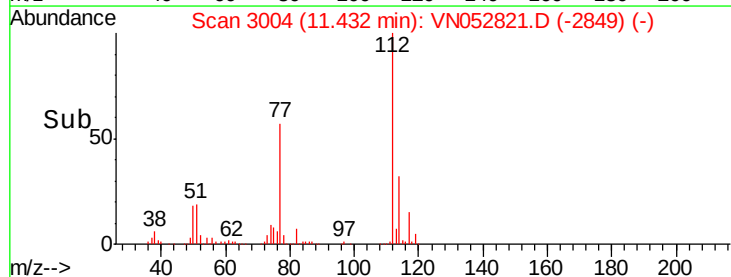
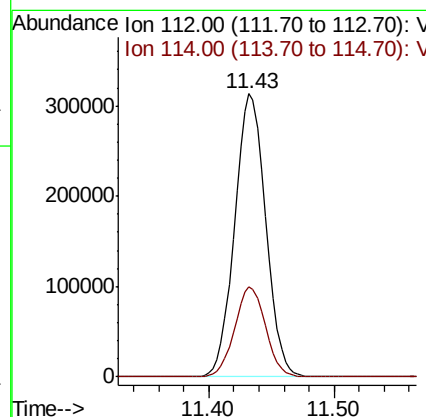
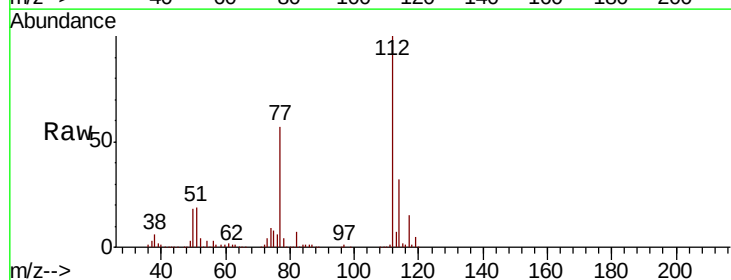
Manual Integrations
APPROVED

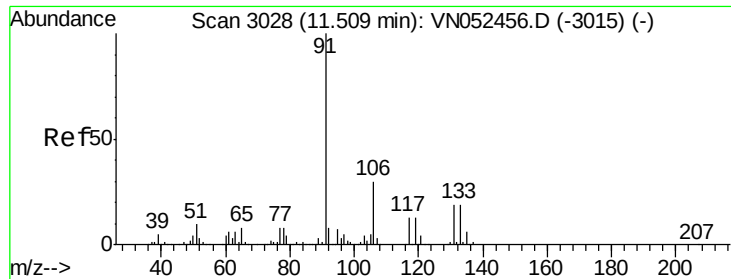
MMDadoda
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#64
Chlorobenzene
Concen: 20.532 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. -0.00 min
Lab File: VN052821.D
Acq: 12 Dec 2018 12:29

Tgt Ion: 112 Resp: 538166
Ion Ratio Lower Upper
112 100
114 32.0 25.6 38.4





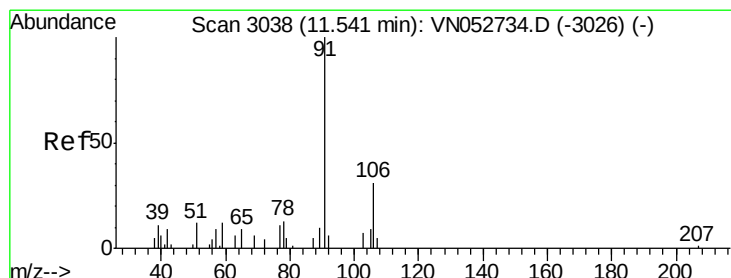
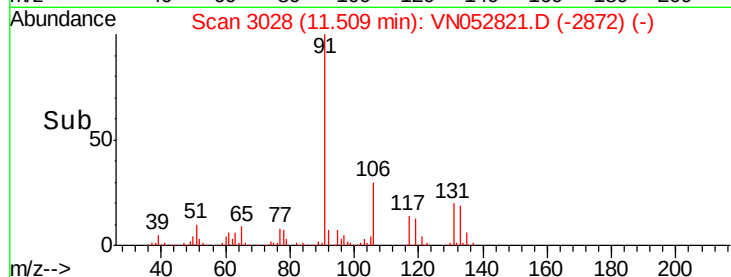
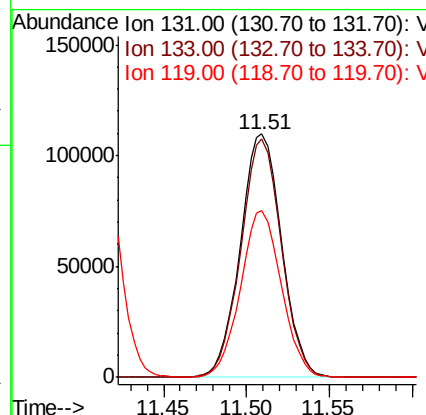
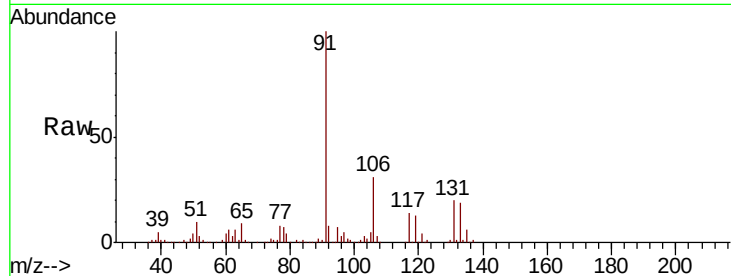
#65
 1,1,1,2-Tetrachloroethane
 Concen: 20.933 ug/l
 RT: 11.51 min Scan# 3028
 Delta R.T. 0.00 min
 Lab File: VN052821.D
 Acq: 12 Dec 2018 12:29

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1212WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
131	100	190452		
133	96.0	0.0	193.4	
119	67.7	0.0	133.0	

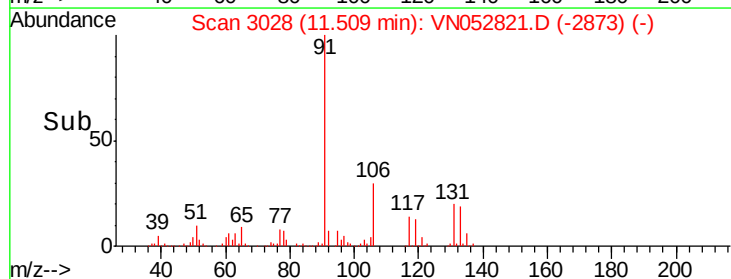
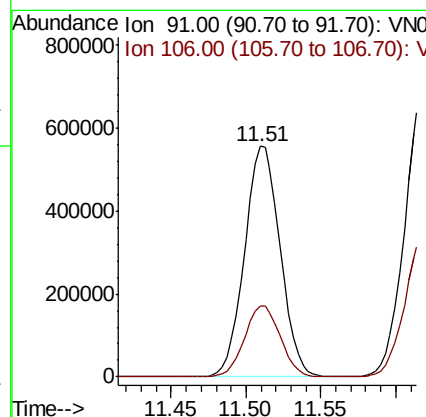
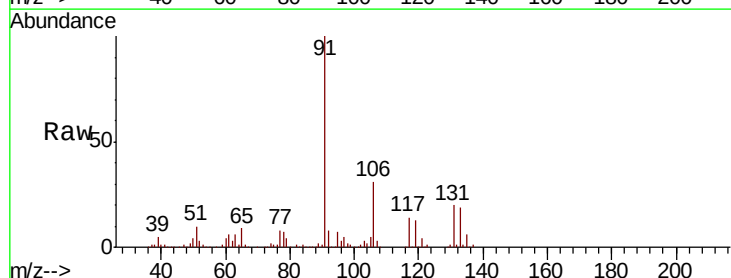
Manual Integrations
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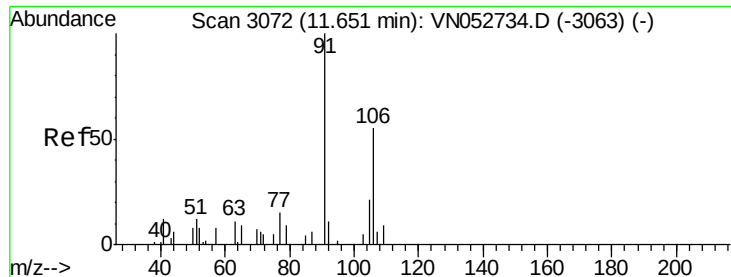
MMDadoda
 12/13/2018 1:29:27 PM



#66
 Ethyl Benzene
 Concen: 19.880 ug/l
 RT: 11.51 min Scan# 3028
 Delta R.T. -0.00 min
 Lab File: VN052821.D
 Acq: 12 Dec 2018 12:29

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	920098		
106	30.7	24.3	36.5	





#67

m/p-Xylenes

Concen: 40.755 ug/l

RT: 11.62 min Scan# 3063

Delta R.T. 0.00 min

Lab File: VN052821.D

Acq: 12 Dec 2018 12:29

Instrument :

MSVOA_N

ClientSampleId :

VN1212WBSD01

Tot Ion:106 Resp: 702745

Ion Ratio Lower Upper

106 100

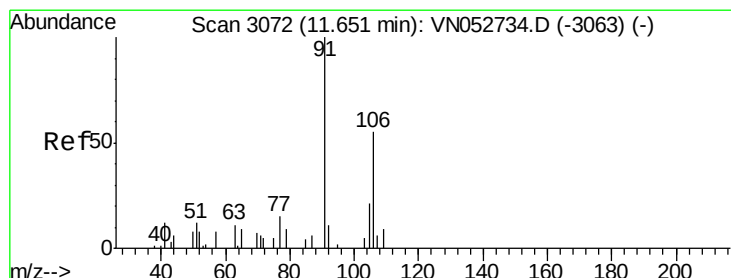
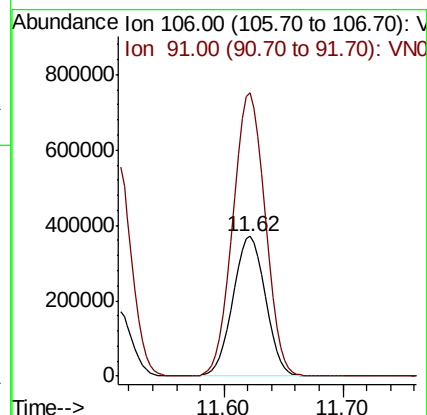
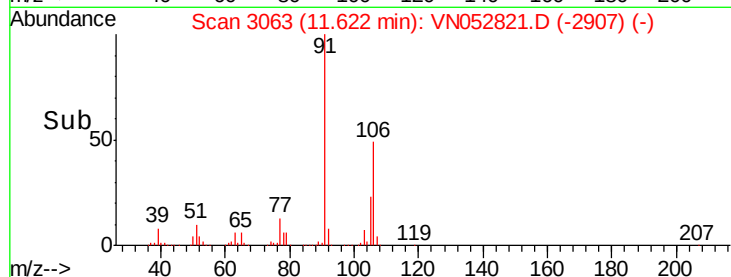
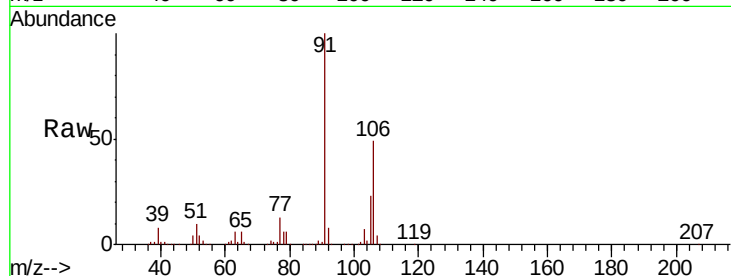
91 201.7 163.9 245.9

Manual Integrations

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#68

o-Xylene

Concen: 20.582 ug/l

RT: 11.95 min Scan# 3164

Delta R.T. -0.00 min

Lab File: VN052821.D

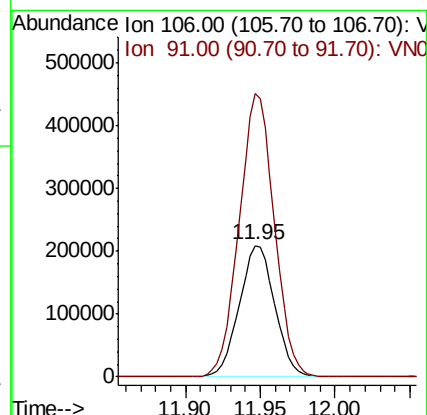
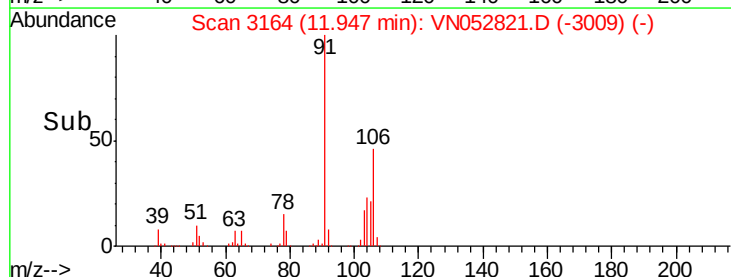
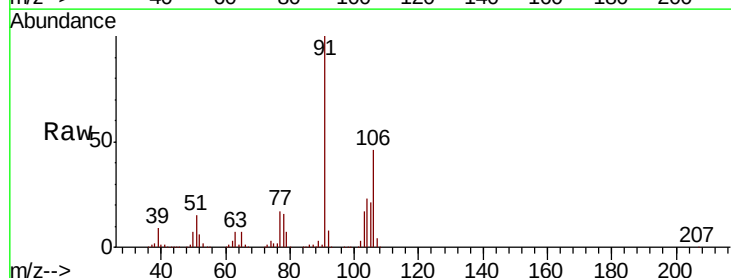
Acq: 12 Dec 2018 12:29

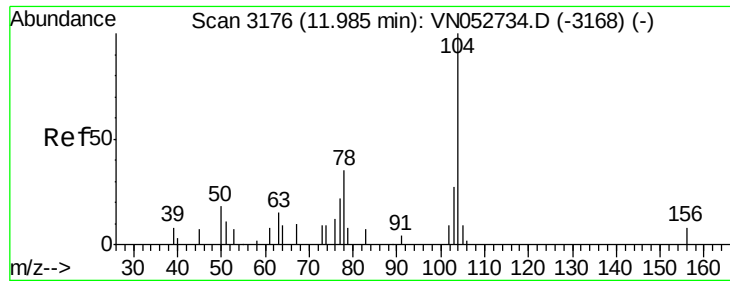
Tgt Ion:106 Resp: 344461

Ion Ratio Lower Upper

106 100

91 213.6 107.8 323.4





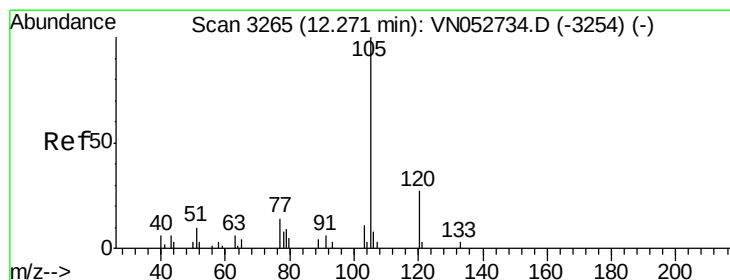
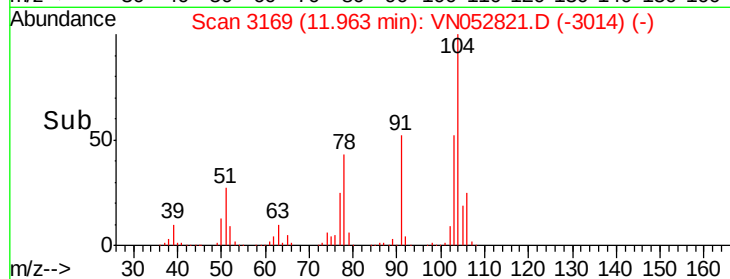
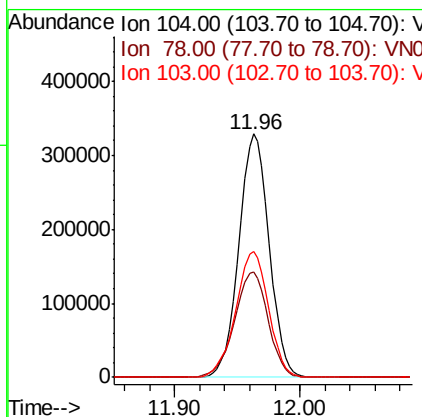
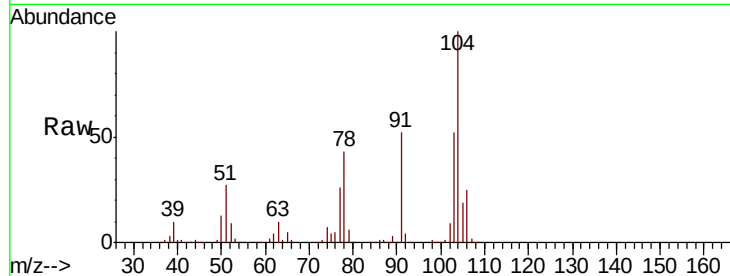
#69
Stvrene
Concen: 20.367 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. -0.00 min
Lab File: VN052821.D
Acq: 12 Dec 2018 12:29

Instrument :
MSVOA_N
ClientSampleId :
VN1212WBSD01

Tot Ion	Ratio	Lower	Upper
104	100		
78	48.4	39.3	58.9
103	56.3	44.6	66.8

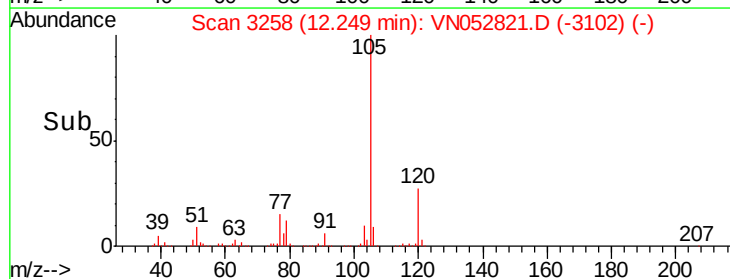
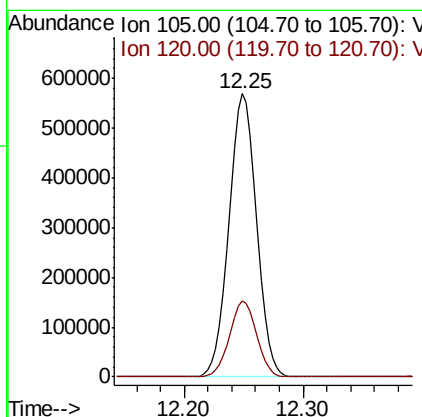
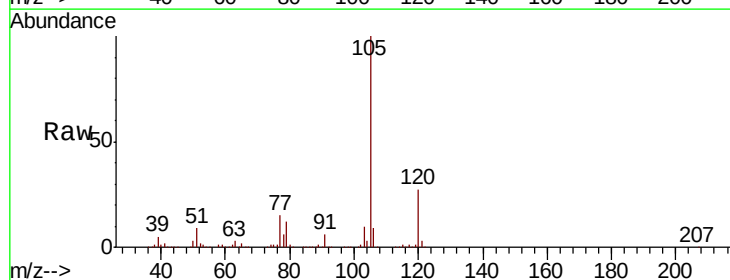
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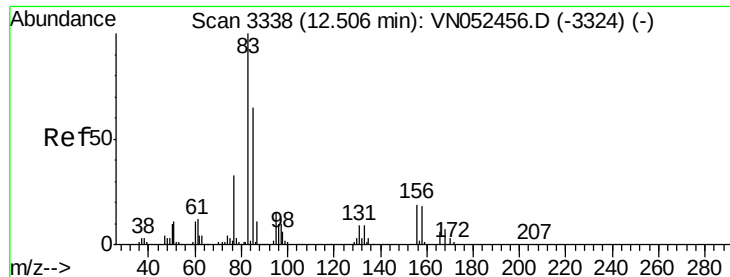
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#70
Isopropylbenzene
Concen: 20.494 ug/l
RT: 12.25 min Scan# 3258
Delta R.T. 0.00 min
Lab File: VN052821.D
Acq: 12 Dec 2018 12:29

Tgt Ion	Ratio	Lower	Upper
105	100		
120	26.4	18.6	34.6





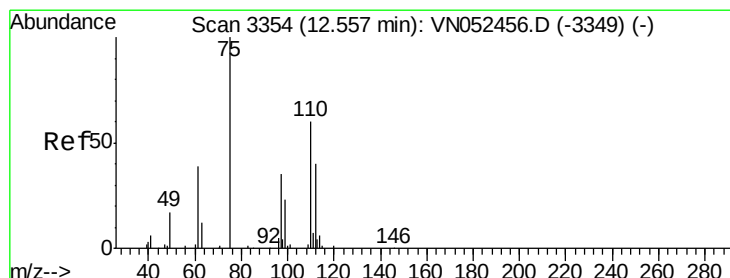
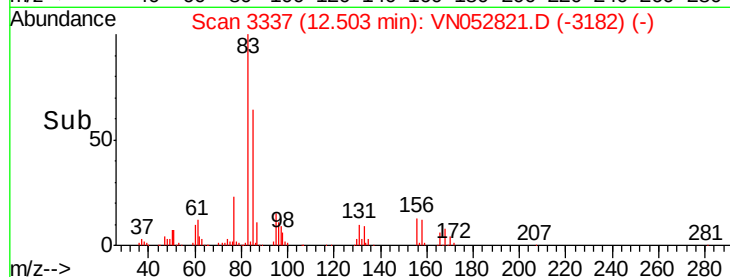
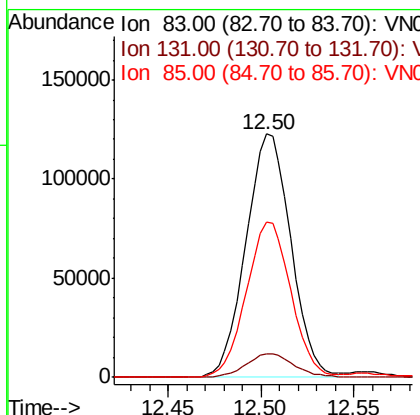
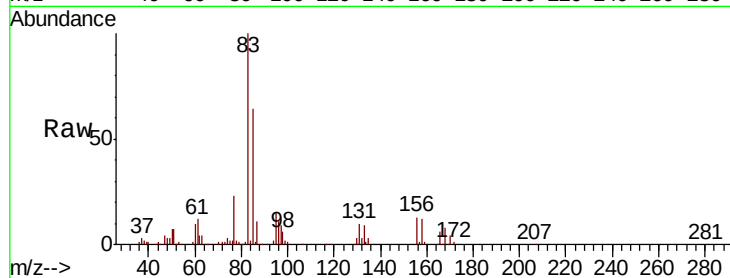
#71
 1,1,2,2-Tetrachloroethane
 Concen: 21.335 ug/l
 RT: 12.50 min Scan# 3337
 Delta R.T. -0.00 min
 Lab File: VN052821.D
 Acq: 12 Dec 2018 12:29

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1212WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
83	100	206661		
131	10.3		4.9	14.6
85	63.1		32.2	96.6

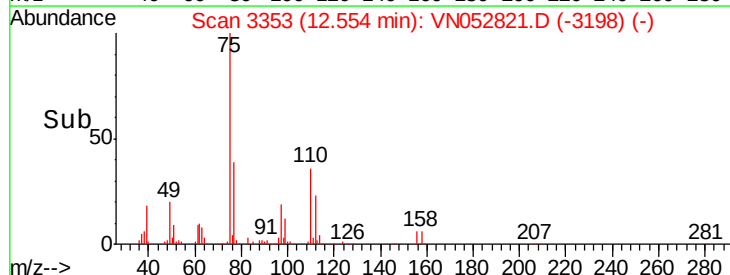
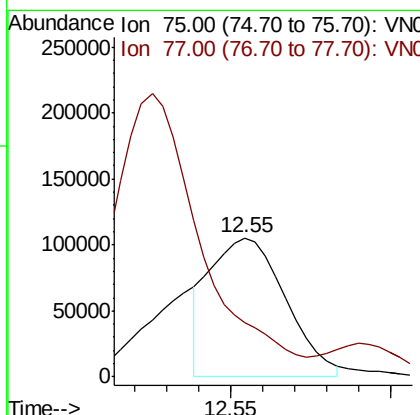
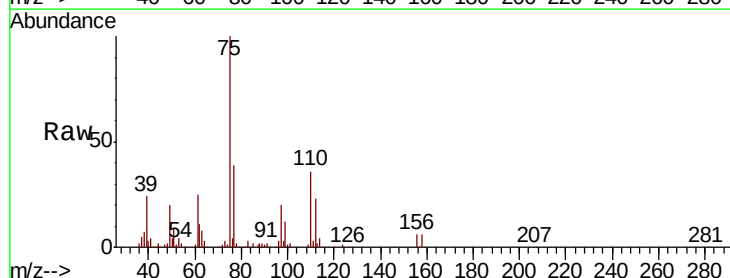
Manual Integrations
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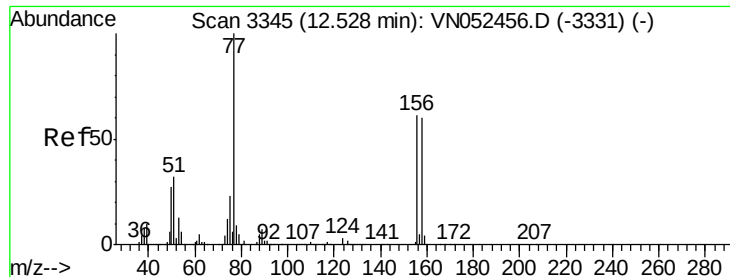
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#72
 1,2,3-Trichloropropane
 Concen: 20.941 ug/l m
 RT: 12.55 min Scan# 3353
 Delta R.T. -0.00 min
 Lab File: VN052821.D
 Acq: 12 Dec 2018 12:29

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	174133		
77	238.7		0.0	514.8





#73

Bromobenzene

Concen: 21.159 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. -0.00 min

Lab File: VN052821.D

Acq: 12 Dec 2018 12:29

Instrument :

MSVOA_N

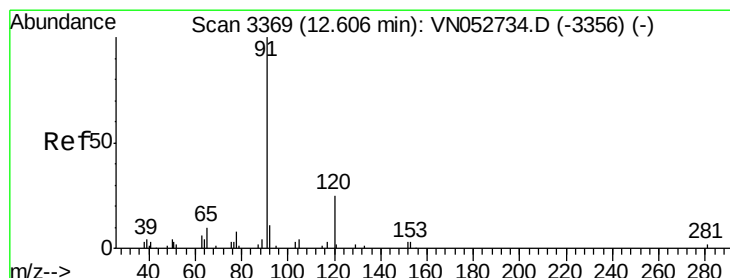
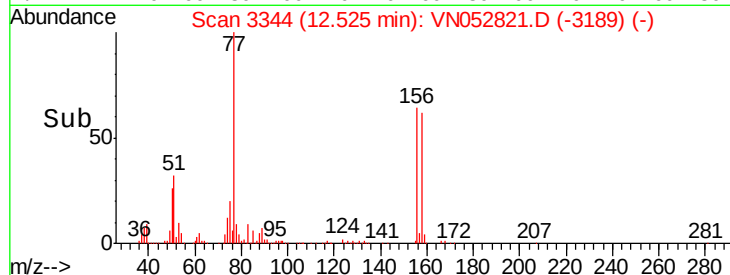
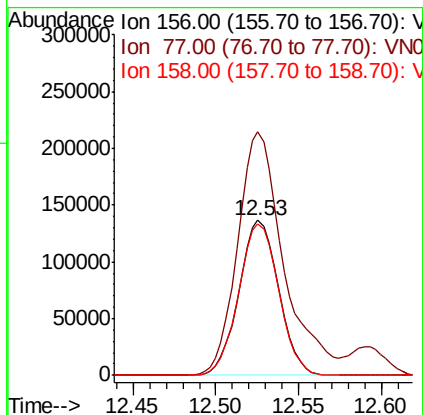
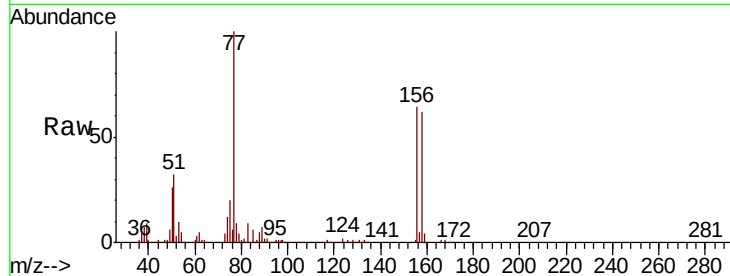
ClientSampleId :

VN1212WBSD01

Tot Ion:	156	Resp:	227873
Ion Ratio	Lower	Upper	
156	100		
77	182.4	0.0	382.6
158	98.7	0.0	196.8

Manual Integrations
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#74

n-propylbenzene

Concen: 20.001 ug/l

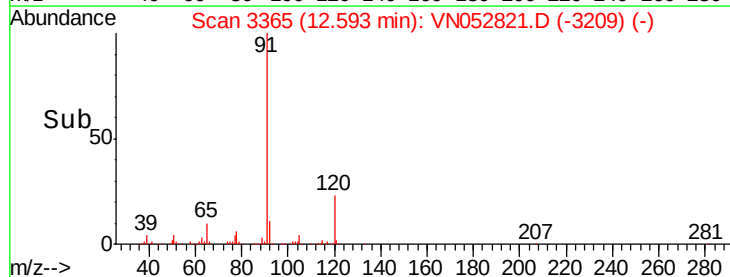
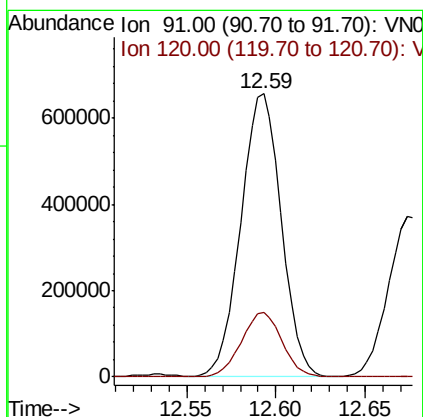
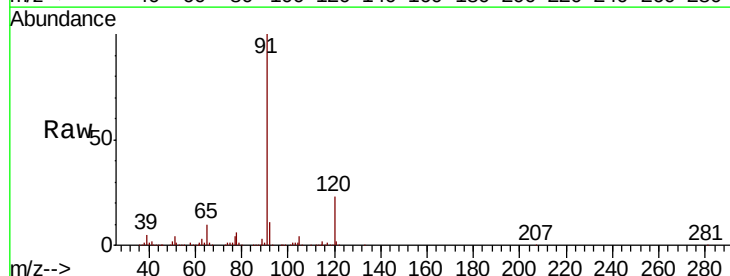
RT: 12.59 min Scan# 3365

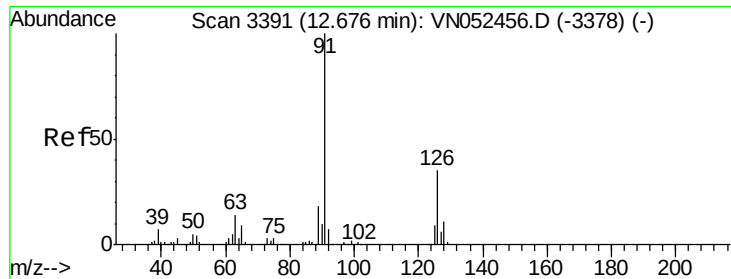
Delta R.T. 0.00 min

Lab File: VN052821.D

Acq: 12 Dec 2018 12:29

Tgt Ion:	91	Resp:	1037721
Ion Ratio	Lower	Upper	
91	100		
120	22.9	0.0	44.6





#75

2-Chlorotoluene

Concen: 20.454 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. -0.00 min

Lab File: VN052821.D

Acq: 12 Dec 2018 12:29

Instrument :

MSVOA_N

ClientSampleId :

VN1212WBSD01

Tot Ion: 91 Resp: 615989

Ion Ratio Lower Upper

91 100

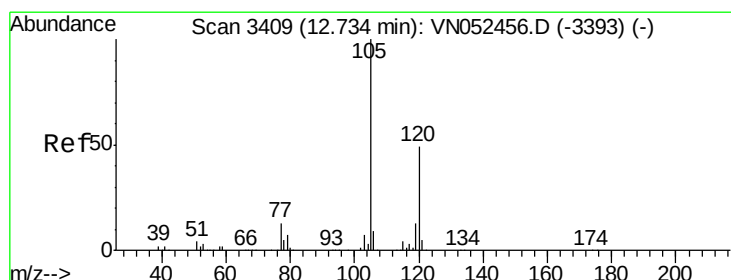
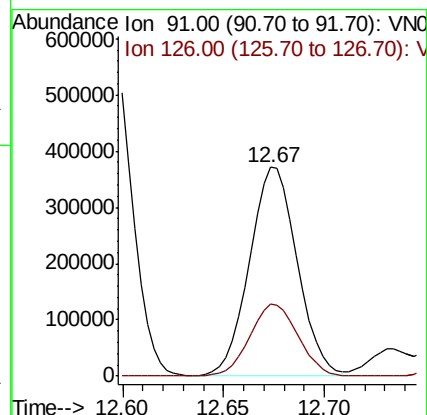
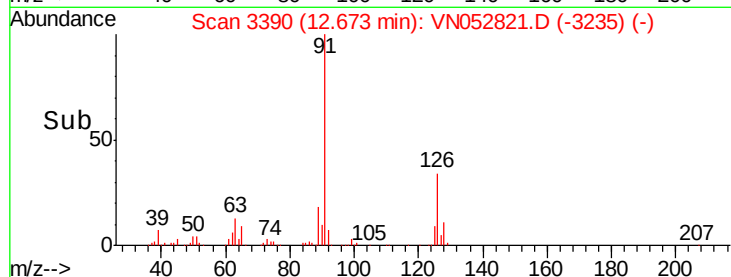
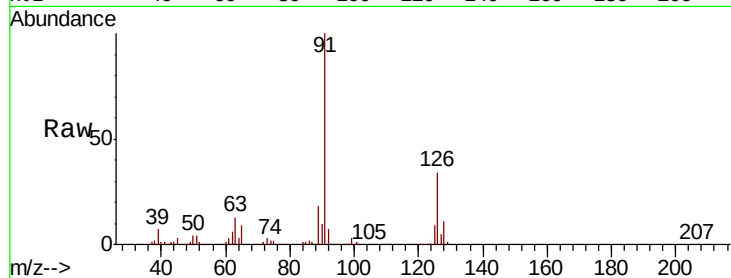
126 34.8 0.0 68.4

Manual Integrations

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#76

1,3,5-Trimethylbenzene

Concen: 20.278 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN052821.D

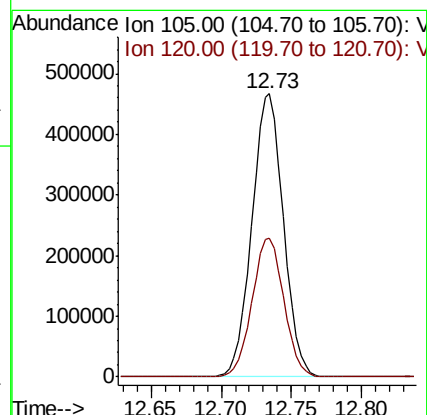
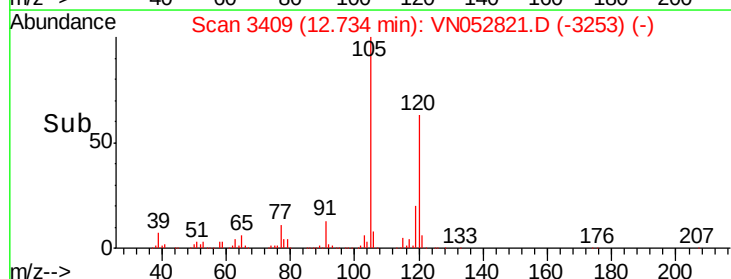
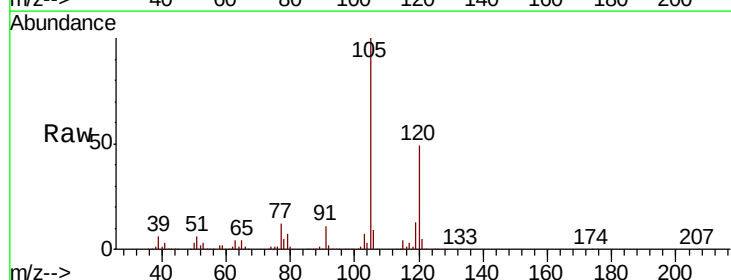
Acq: 12 Dec 2018 12:29

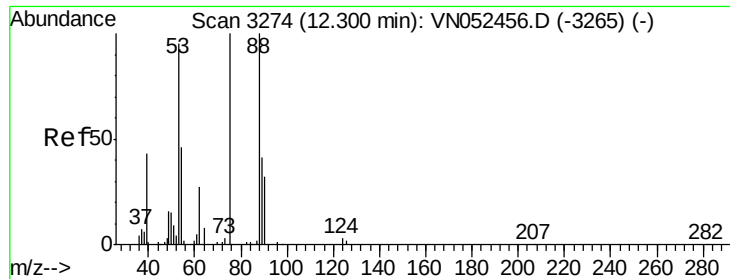
Tgt Ion: 105 Resp: 729347

Ion Ratio Lower Upper

105 100

120 49.5 0.0 97.4





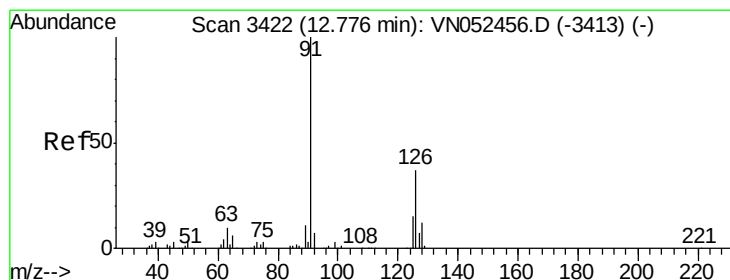
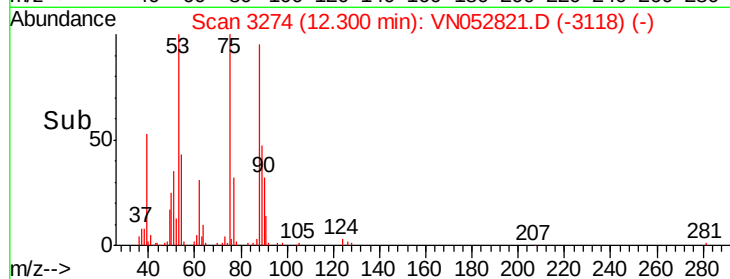
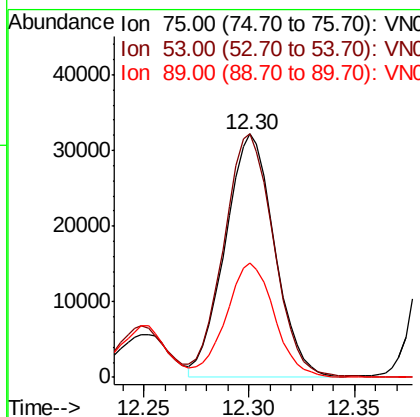
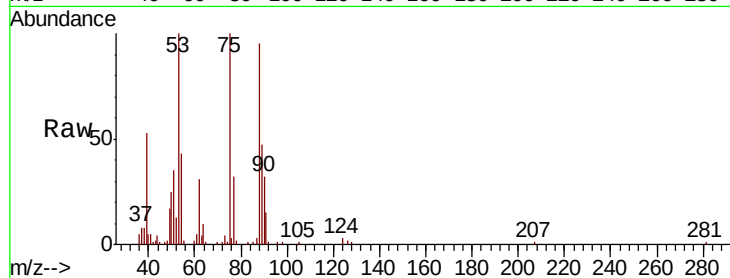
#77
t-1,4-Dichloro-2-butene
Concen: 19.922 ug/l
RT: 12.30 min Scan# 3274
Delta R.T. 0.00 min
Lab File: VN052821.D
Acq: 12 Dec 2018 12:29

Instrument :
MSVOA_N
ClientSampleId :
VN1212WBSD01

Tot Ion	Ratio	Lower	Upper
75	100		
53	99.1	48.5	145.6
89	46.8	21.7	65.1

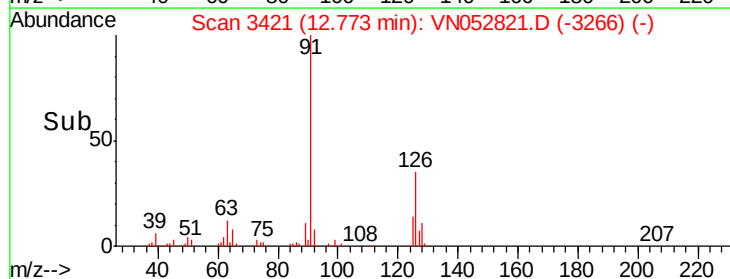
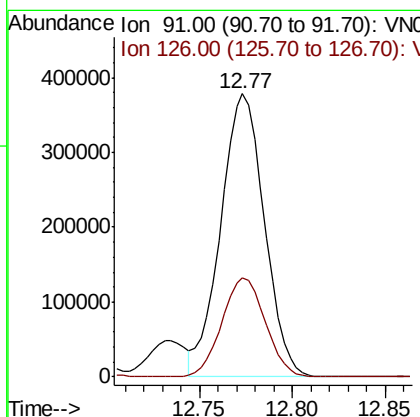
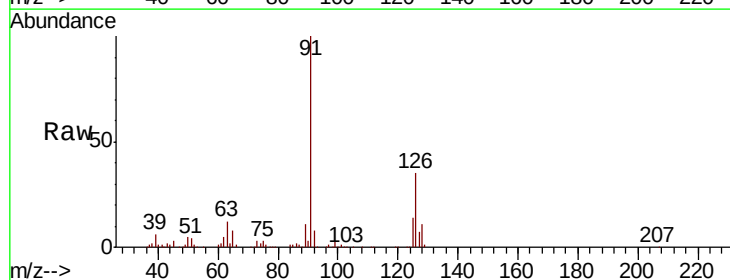
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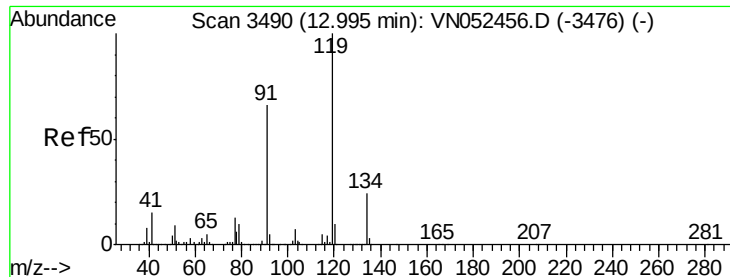
MMDadoda
12/13/2018 1:29:27 PM



#78
4-Chlorotoluene
Concen: 20.478 ug/l
RT: 12.77 min Scan# 3421
Delta R.T. -0.00 min
Lab File: VN052821.D
Acq: 12 Dec 2018 12:29

Tgt Ion	Ratio	Lower	Upper
91	100		
126	35.0	0.0	68.2





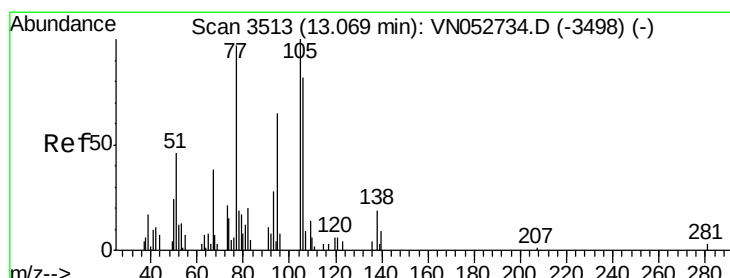
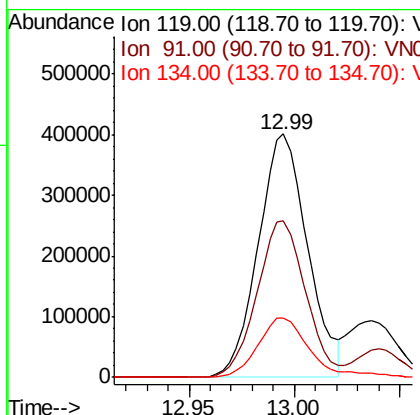
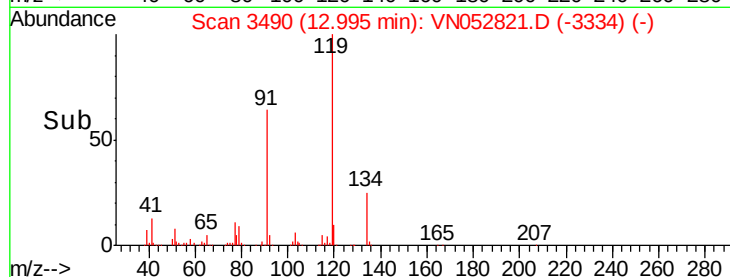
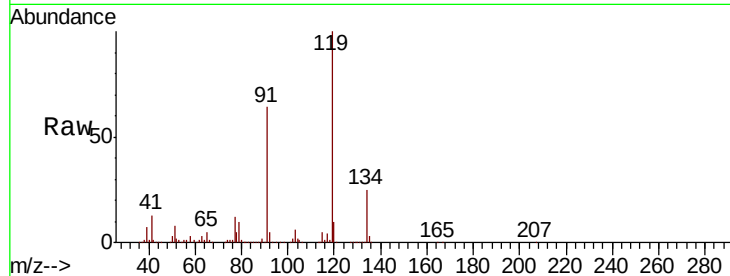
#79
tert-butylbenzene
Concen: 20.849 ug/l
RT: 12.99 min Scan# 3490
Delta R.T. 0.00 min
Lab File: VN052821.D
Acq: 12 Dec 2018 12:29

Instrument :
MSVOA_N
ClientSampleId :
VN1212WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
119	100	653052		
91	63.0	0.0	129.8	
134	25.8	0.0	52.2	

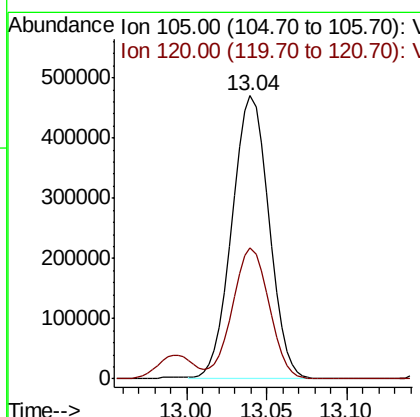
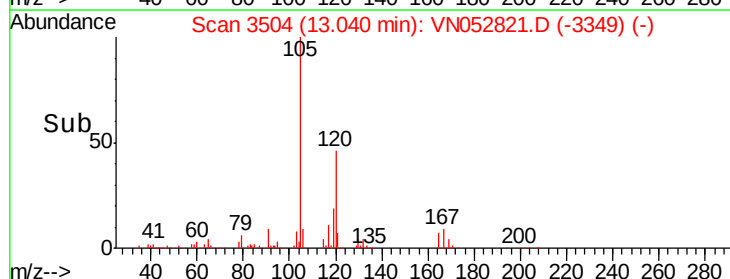
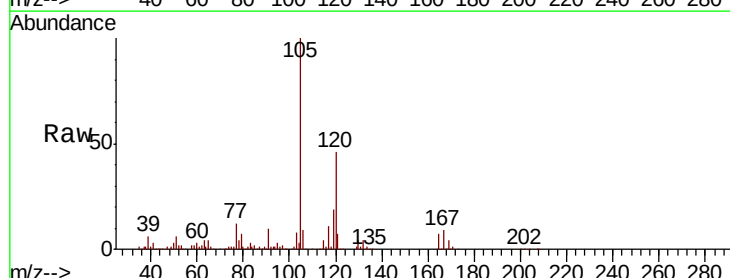
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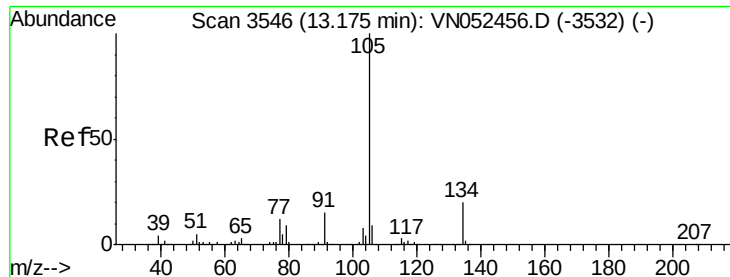
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#80
1,2,4-Trimethylbenzene
Concen: 20.596 ug/l
RT: 13.04 min Scan# 3504
Delta R.T. -0.00 min
Lab File: VN052821.D
Acq: 12 Dec 2018 12:29

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	741218		
120	46.0	0.0	91.0	





#81

sec-Butylbenzene

Concen: 20.315 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. -0.00 min

Lab File: VN052821.D

Acq: 12 Dec 2018 12:29

Instrument :

MSVOA_N

ClientSampleId :

VN1212WBSD01

Tot Ion:105 Resp: 886337

Ion Ratio Lower Upper

105 100

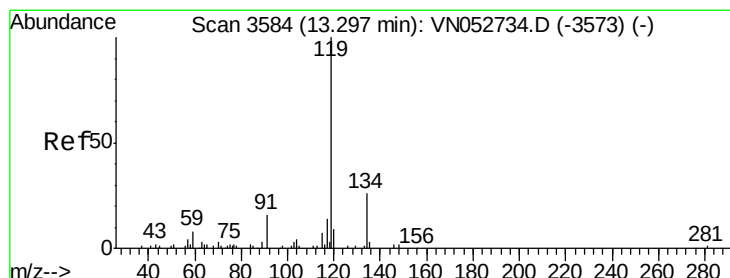
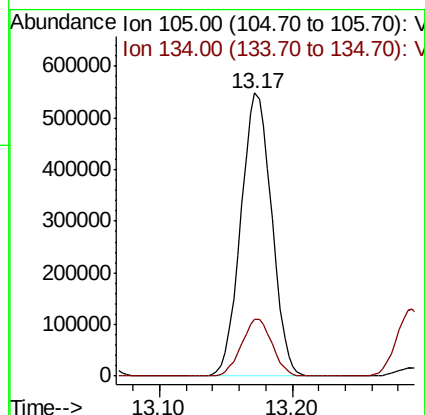
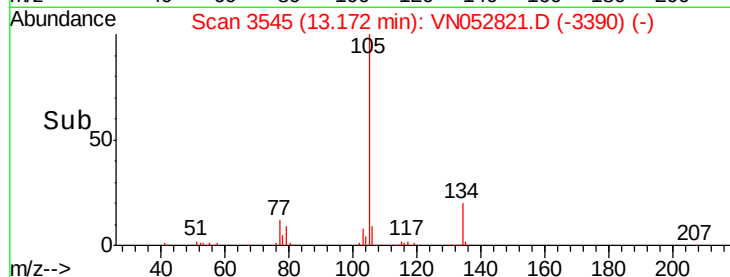
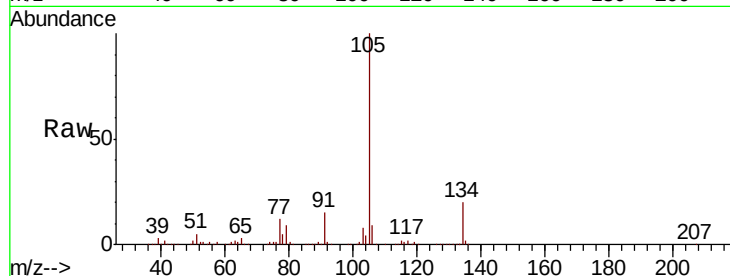
134 20.0 0.0 40.4

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#82

p-Isopropyltoluene

Concen: 20.322 ug/l

RT: 13.29 min Scan# 3582

Delta R.T. 0.00 min

Lab File: VN052821.D

Acq: 12 Dec 2018 12:29

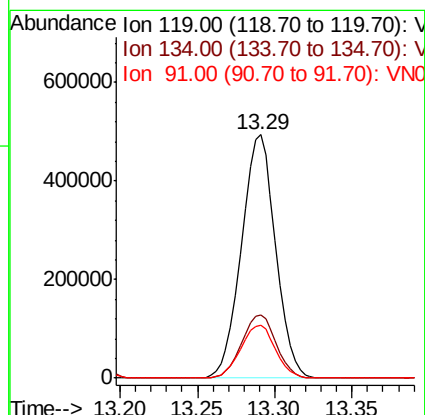
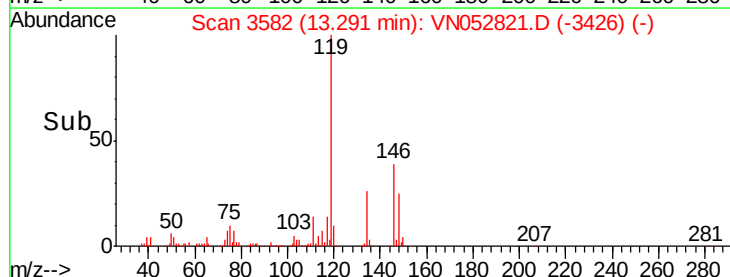
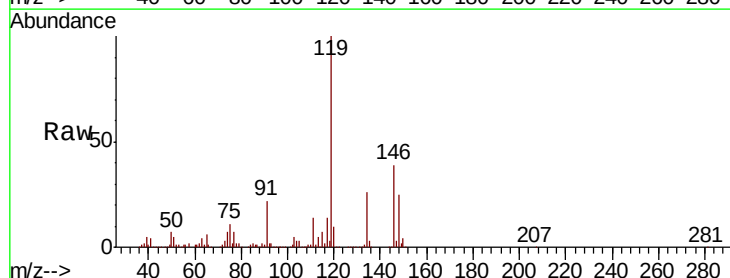
Tgt Ion:119 Resp: 754967

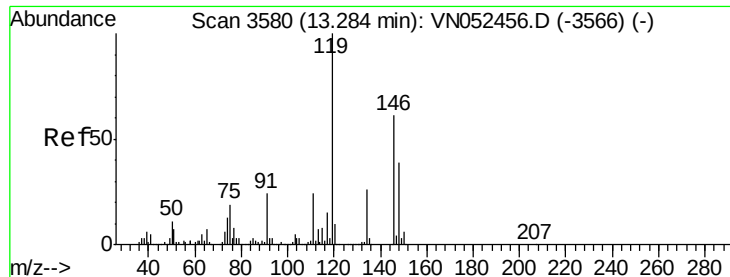
Ion Ratio Lower Upper

119 100

134 26.4 0.0 52.6

91 22.2 0.0 46.2





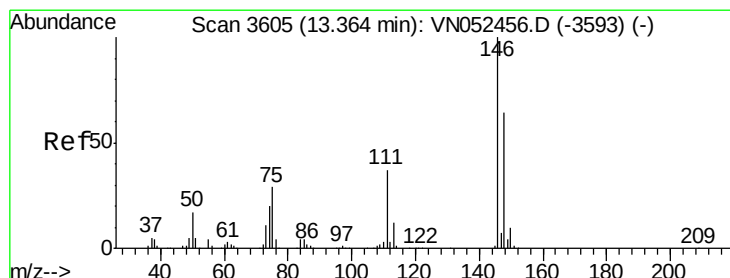
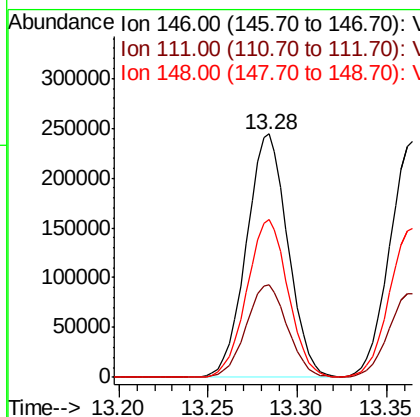
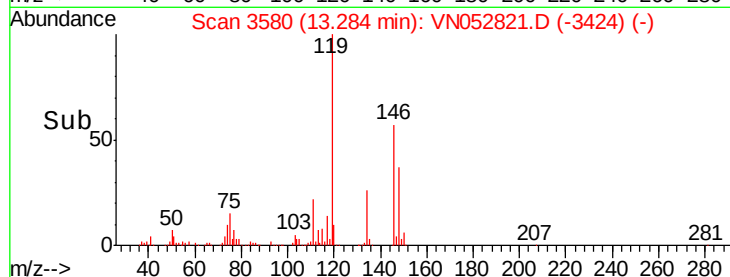
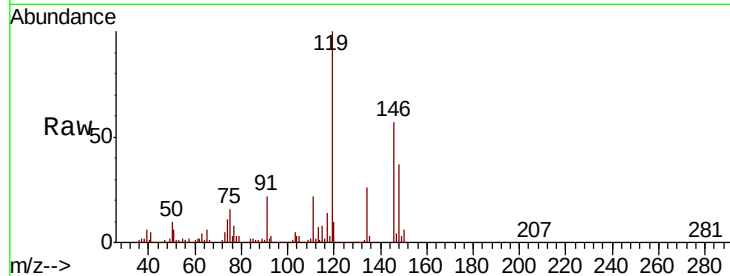
#83
 1,3-Dichlorobenzene
 Concen: 20.949 ug/l
 RT: 13.28 min Scan# 3580
 Delta R.T. 0.00 min
 Lab File: VN052821.D
 Acq: 12 Dec 2018 12:29

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1212WBSD01

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.0	19.7	59.0
148	64.7	32.3	96.8

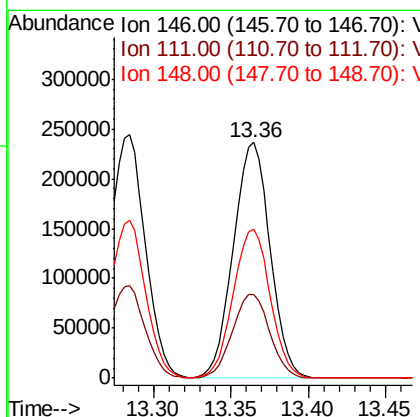
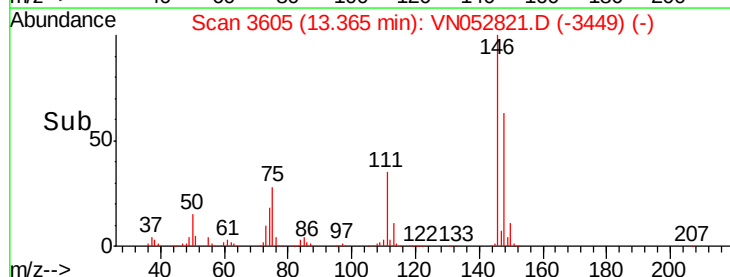
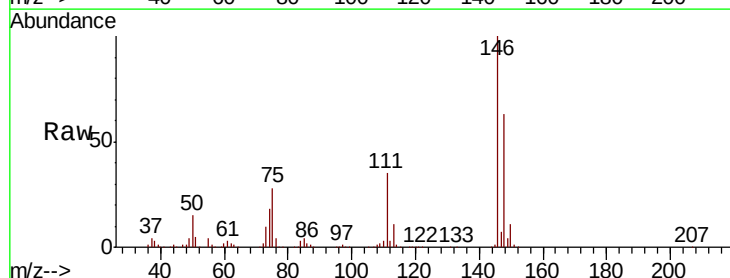
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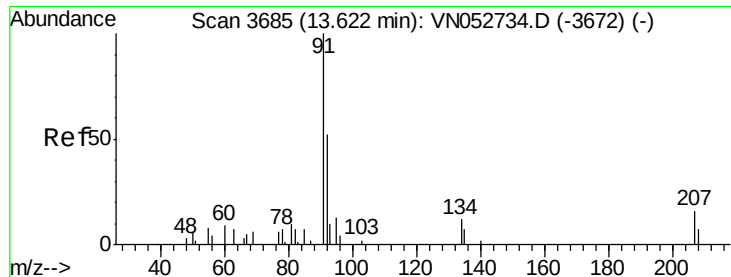
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#84
 1,4-Dichlorobenzene
 Concen: 21.314 ug/l
 RT: 13.36 min Scan# 3605
 Delta R.T. 0.00 min
 Lab File: VN052821.D
 Acq: 12 Dec 2018 12:29

Tgt Ion	Ratio	Lower	Upper
146	100		
111	36.0	18.8	56.3
148	63.6	32.5	97.4





#85

n-Butylbenzene

Concen: 18.916 ug/l

RT: 13.62 min Scan# 3683

Delta R.T. 0.00 min

Lab File: VN052821.D

Acq: 12 Dec 2018 12:29

Instrument :

MSVOA_N

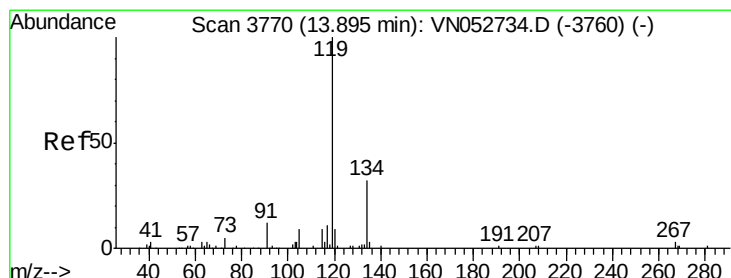
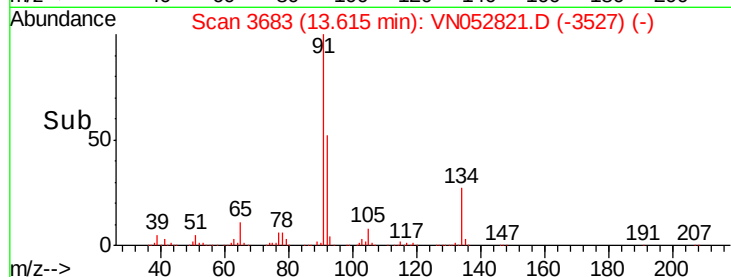
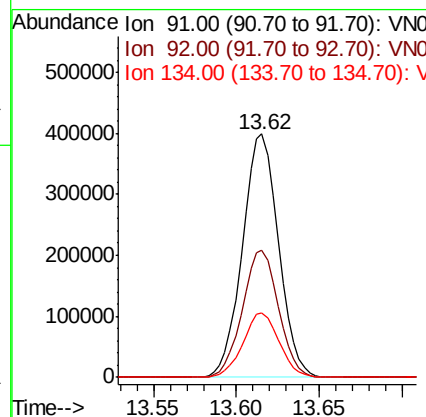
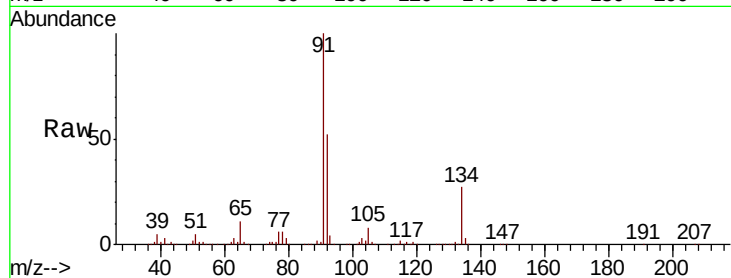
ClientSampleId :

VN1212WBSD01

Tot Ion:	91	Resp:	603635
Ion Ratio	Lower	Upper	
91	100		
92	52.2	0.0	104.2
134	26.5	0.0	50.6

Manual Integrations
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#86

Hexachloroethane

Concen: 19.590 ug/l

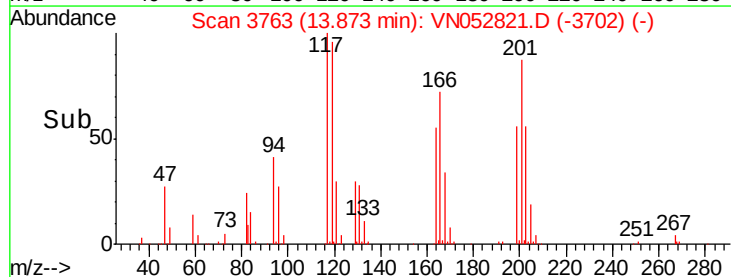
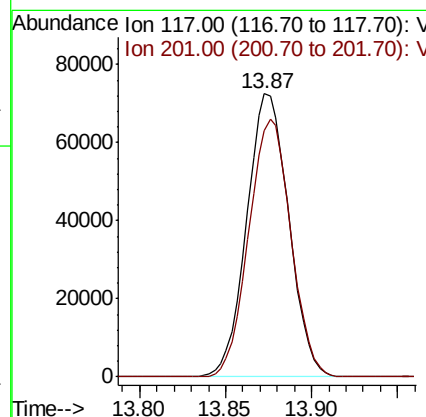
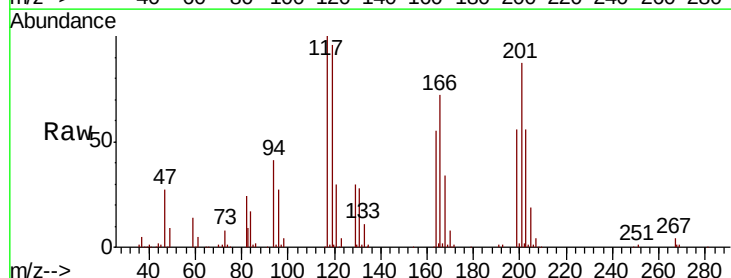
RT: 13.87 min Scan# 3763

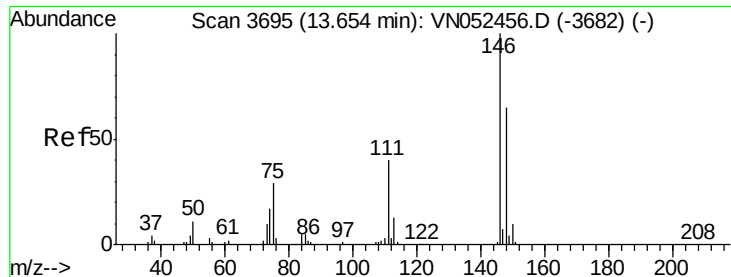
Delta R.T. -0.00 min

Lab File: VN052821.D

Acq: 12 Dec 2018 12:29

Tgt Ion:	117	Resp:	123312
Ion Ratio	Lower	Upper	
117	100		
201	90.8	43.8	131.3





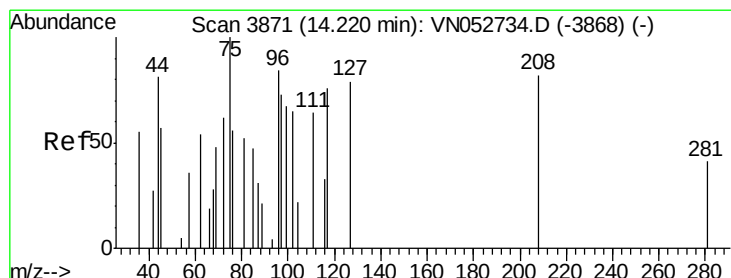
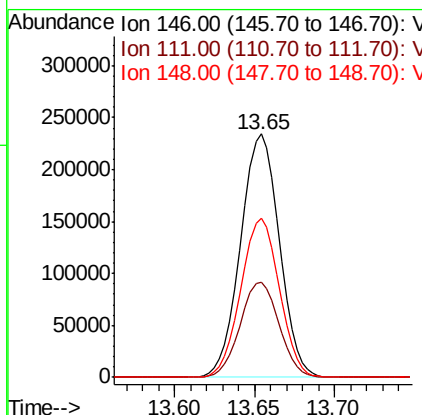
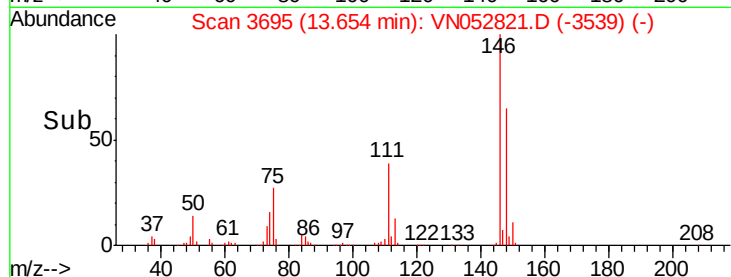
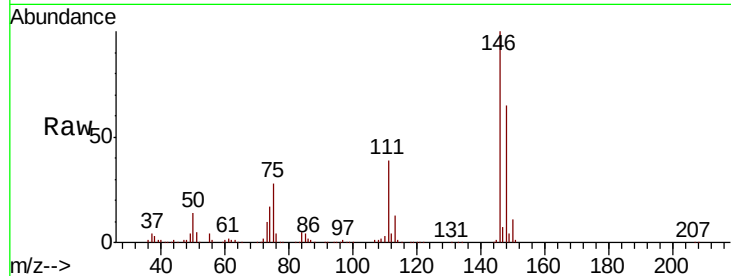
#87
 1,2-Dichlorobenzene
 Concen: 21.504 ug/l
 RT: 13.65 min Scan# 3695
 Delta R.T. 0.00 min
 Lab File: VN052821.D
 Acq: 12 Dec 2018 12:29

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1212WBSD01

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.1	20.3	60.8
148	65.0	32.1	96.5

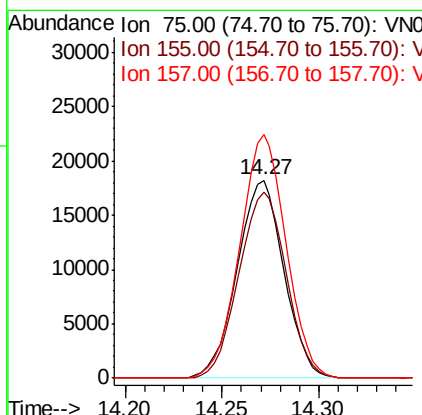
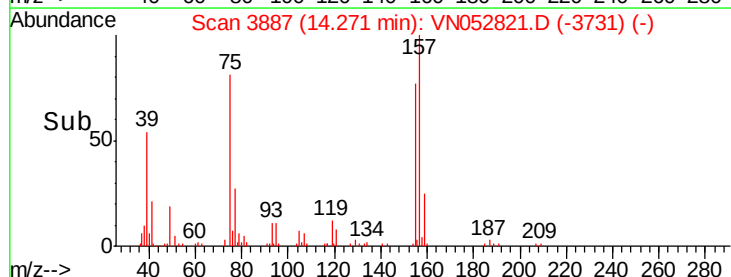
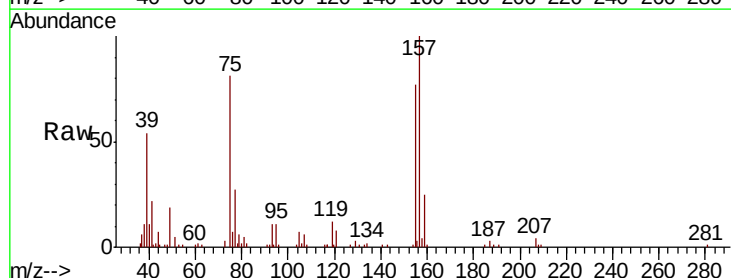
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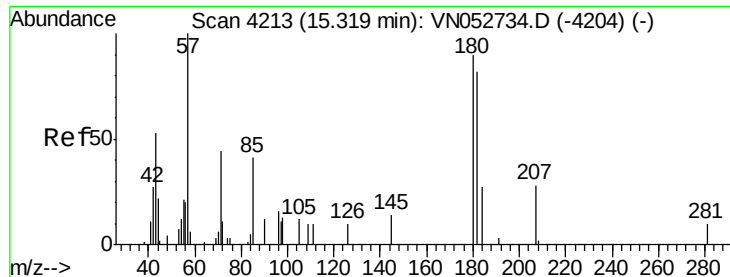
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#88
 1,2-Dibromo-3-Chloropropane
 Concen: 22.532 ug/l
 RT: 14.27 min Scan# 3887
 Delta R.T. 0.00 min
 Lab File: VN052821.D
 Acq: 12 Dec 2018 12:29

Tgt Ion	Ratio	Lower	Upper
75	100		
155	95.0	72.2	108.2
157	121.8	94.2	141.2





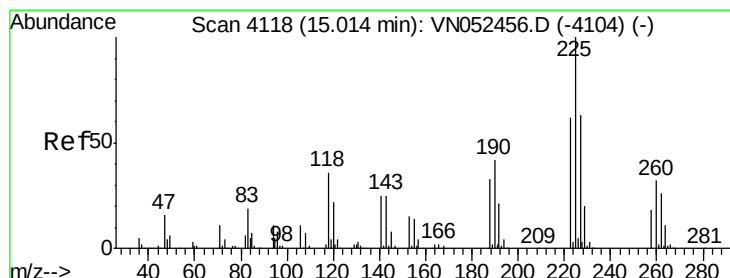
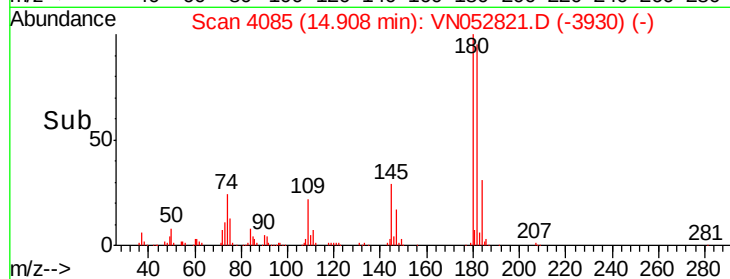
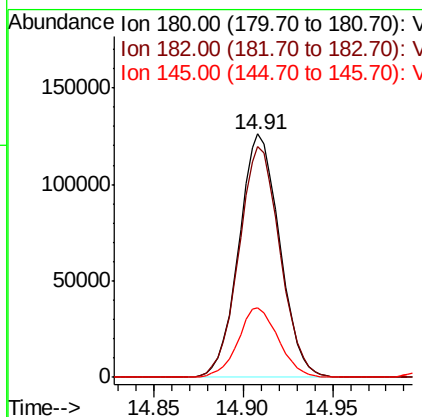
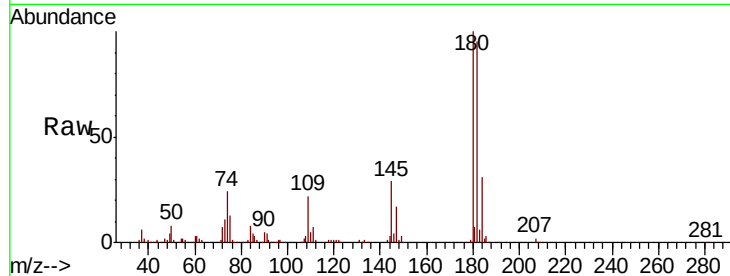
#89
 1,2,4-Trichlorobenzene
 Concen: 22.557 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. -0.00 min
 Lab File: VN052821.D
 Acq: 12 Dec 2018 12:29

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1212WBSD01

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.9	76.6	114.8
145	28.3	23.6	35.4

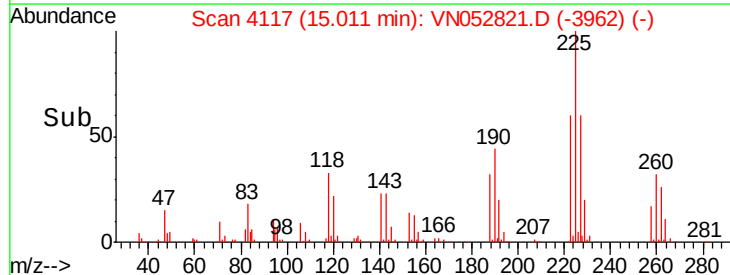
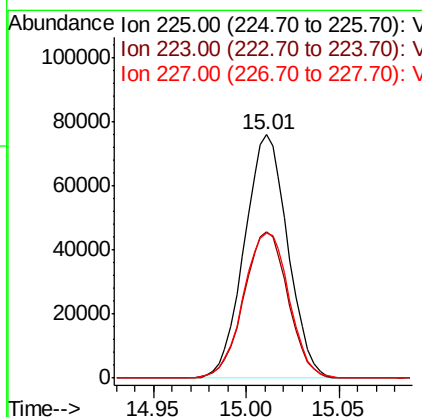
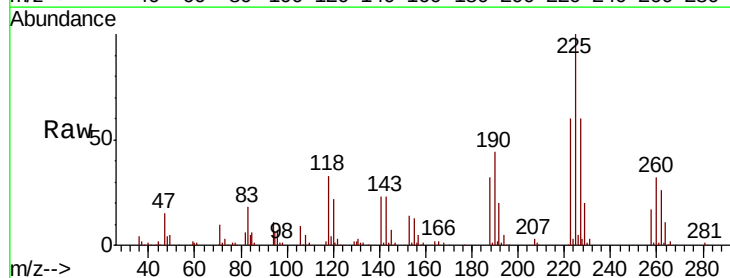
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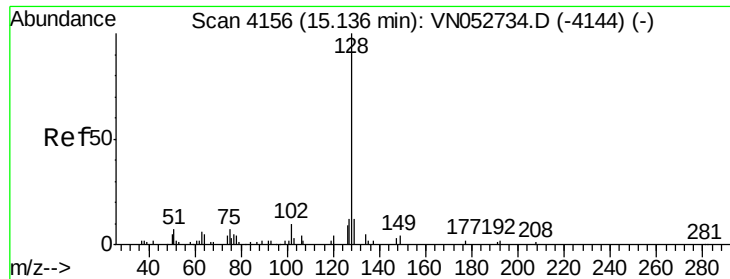
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#90
 Hexachlorobutadiene
 Concen: 21.296 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. -0.00 min
 Lab File: VN052821.D
 Acq: 12 Dec 2018 12:29

Tgt Ion	Ratio	Lower	Upper
225	100		
223	61.1	0.0	125.6
227	62.8	0.0	127.8





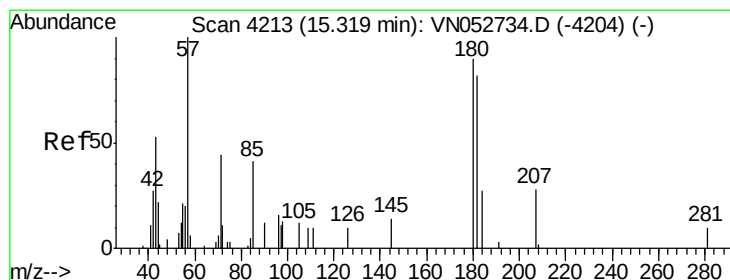
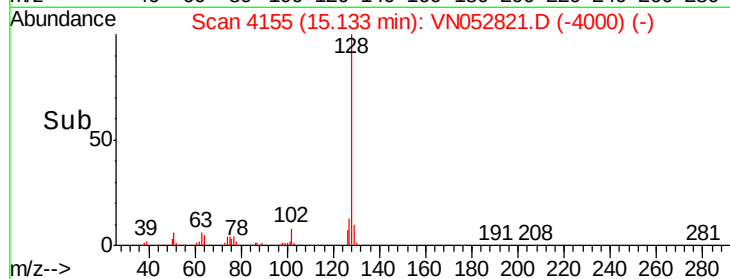
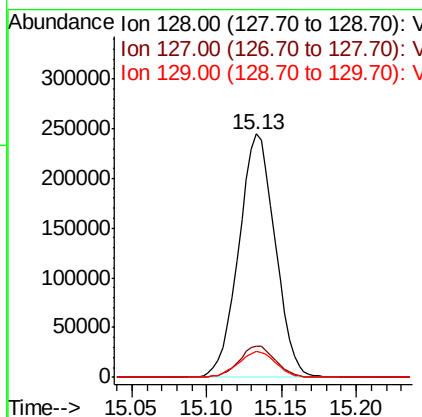
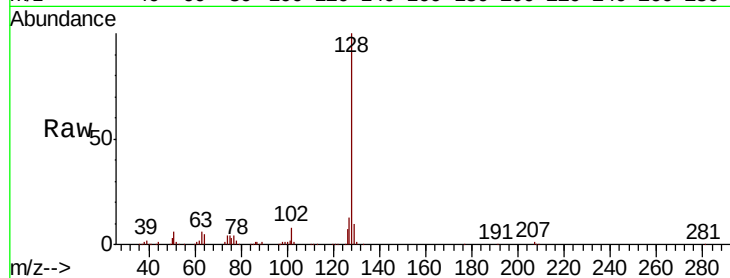
#91
Naphthalene
Concen: 23.075 ug/l
RT: 15.13 min Scan# 4156
Delta R.T. -0.00 min
Lab File: VN052821.D
Acq: 12 Dec 2018 12:29

Instrument :
MSVOA_N
ClientSampleId :
VN1212WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
128	100			
127	12.8	9.9	14.9	
129	11.0	8.5	12.7	

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#92
1,2,3-Trichlorobenzene
Concen: 22.981 ug/l
RT: 15.31 min Scan# 4211
Delta R.T. -0.00 min
Lab File: VN052821.D
Acq: 12 Dec 2018 12:29

Tgt Ion	Ratio	Resp	Lower	Upper
180	100			
182	96.0	0.0	196.2	
145	29.7	0.0	62.2	

