

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN052219\
 Data File : VN055727.D
 Acq On : 22 May 2019 18:37
 Operator : JC/SP
 Sample : VSTDICC150
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC150

Manual Integrations
 APPROVED

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 5/23/2019 12:31:26 PM

Quant Time: May 23 05:52:20 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N052219W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu May 23 05:31:08 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.19	128	55263	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.58	114	317119	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	283902	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	110683	26.28	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	87.60%
60) 4-Bromofluorobenzene	12.40	95	138920	31.68	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	105.60%
63) Toluene-d8	10.09	98	378689	28.26	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	94.20%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	349512	120.557	ug/l 99
3) Chloromethane	2.06	50	508909	124.170	ug/l 99
4) Vinyl Chloride	2.18	62	522265	150.863	ug/l 100
5) Bromomethane	2.52	94	274606	139.198	ug/l 100
6) Chloroethane	2.67	64	294562	150.318	ug/l 96
7) Trichlorofluoromethane	3.00	101	663604	134.571	ug/l 99
8) Diethyl Ether	3.40	74	288743	141.020	ug/l 98
9) 1,1,2-Trichlorotrifluoroet	3.74	101	410853	131.008	ug/l 99
10) 1,1-Dichloroethene	3.72	96	433599	145.048	ug/l 99
11) Methyl Iodide	3.94	142	681731	147.651	ug/l 99
12) Methyl Acetate	4.32	43	507234	121.446	ug/l 99
13) Acrolein	3.60	56	365454	1443.978	ug/l 100
14) Acrylonitrile	4.99	53	1242212	796.641	ug/l 100
15) Acetone	3.82	58	354246	884.691	ug/l 97
16) Carbon Disulfide	4.04	76	1277365	154.284	ug/l 99
17) Allyl chloride	4.31	41	793983	126.392	ug/l 98
18) Methylene Chloride	4.54	84	501632	137.822	ug/l 99
19) trans-1,2-Dichloroethene	5.03	96	473293	145.732	ug/l 99
20) Diisopropyl ether	5.96	45	1551825	124.058	ug/l 93
21) 1,1-Dichloroethane	5.84	63	865493	130.715	ug/l 99
22) cis-1,2-Dichloroethene	6.82	96	557689	147.309	ug/l 98
23) tert-Butyl Alcohol	4.82	59	530121	1222.870	ug/l # 100
24) Methyl tert-Butyl Ether	5.05	73	1485551	150.948	ug/l 99
25) Chloroform	7.37	83	840749	133.956	ug/l 99
26) Cyclohexane	7.65	56	790252	135.075	ug/l # 98
29) 1,1-Dichloropropene	7.79	75	650281	132.251	ug/l 99
30) 2-Butanone	6.84	43	1715290	816.675	ug/l 100
31) 2,2-Dichloropropane	6.82	77	718024	147.577	ug/l 99
32) 1,1,1-Trichloroethane	7.57	97	750824	135.776	ug/l 100
33) Carbon Tetrachloride	7.77	117	667141	141.798	ug/l 99
34) Benzene	8.04	78	1982246	134.086	ug/l # 91
35) Methacrylonitrile	7.18	41	328383	146.257	ug/l 97
36) 1,2-Dichloroethane	8.12	62	643487	124.165	ug/l 100
37) Trichloroethene	8.83	130	556706	146.233	ug/l 99
38) Methylcyclohexane	9.08	83	814866	150.007	ug/l 99
39) 1,2-Dichloropropane	9.12	63	531740	127.405	ug/l 99
40) Dibromomethane	9.21	93	343828	140.136	ug/l 96

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 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	695556	137.428	ug/l	99
42) Vinyl Acetate	5.89	43	6688735	688.959	ug/l	100
43) Ethyl Acetate	6.93	43	670177	154.687	ug/l #	100
44) Isopropyl Acetate	8.17	43	1139783	147.763	ug/l #	88
45) 1,4-Dioxane	9.20	88	212132	4590.760	ug/l	100
46) Methyl methacrylate	9.20	41	542455	148.991	ug/l	100
47) n-amyl Acetate	12.07	43	957719	165.873	ug/l	98
48) t-1,3-Dichloropropene	10.38	75	812294	158.857	ug/l	100
49) cis-1,3-Dichloropropene	9.84	75	870428	148.777	ug/l	98
50) 1,1,2-Trichloroethane	10.56	97	499056	146.541	ug/l	99
51) Ethyl methacrylate	10.43	69	829136	170.105	ug/l	100
52) 1,3-Dichloropropane	10.71	76	834778	139.636	ug/l	99
53) Dibromochloromethane	10.90	129	604494	165.927	ug/l	98
54) 1,2-Dibromoethane	11.00	107	526824	156.256	ug/l	99
55) 2-Chloroethyl vinyl ether	9.70	63	1708315	1092.679	ug/l	99
56) Bromoform	12.13	173	497176	196.566	ug/l	99
58) 4-Methyl-2-Pentanone	9.99	43	3318678	736.719	ug/l	99
59) 2-Hexanone	10.75	43	2405367	815.163	ug/l	100
61) Tetrachloroethene	10.63	164	544226	146.952	ug/l	98
62) Toluene	10.16	91	2183046	136.942	ug/l	99
64) Chlorobenzene	11.43	112	1352700	142.509	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.51	131	527480	146.148	ug/l	99
66) Ethyl Benzene	11.51	91	2400987	140.408	ug/l	100
67) m/p-Xylenes	11.62	106	1833313	291.932	ug/l	100
68) o-Xylene	11.95	106	894347	143.330	ug/l	99
69) Styrene	11.96	104	1555867	157.944	ug/l	99
70) Isopropylbenzene	12.25	105	2384042	145.192	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.50	83	719823	154.319	ug/l	100
72) 1,2,3-Trichloropropane	12.55	75	647188m	158.795	ug/l	
73) Bromobenzene	12.53	156	659076	164.664	ug/l	100
74) n-propylbenzene	12.59	91	2715751	149.124	ug/l	100
75) 2-Chlorotoluene	12.67	91	1602532	143.365	ug/l	99
76) 1,3,5-Trimethylbenzene	12.73	105	1968640	145.316	ug/l	99
77) t-1,4-Dichloro-2-butene	12.30	75	261370	218.026	ug/l	99
78) 4-Chlorotoluene	12.77	91	1581029	149.196	ug/l	99
79) tert-butylbenzene	12.99	119	1673215	142.787	ug/l	99
80) 1,2,4-Trimethylbenzene	13.04	105	1957315	149.693	ug/l	99
81) sec-Butylbenzene	13.17	105	2210792	144.111	ug/l	100
82) p-Isopropyltoluene	13.29	119	2075494	159.344	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	1085356	167.938	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	1072113	175.869	ug/l	99
85) n-Butylbenzene	13.61	91	1750910	174.617	ug/l	100
86) Hexachloroethane	13.87	117	392311	169.264	ug/l	97
87) 1,2-Dichlorobenzene	13.65	146	1056820	163.294	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	146170	199.101	ug/l	98
89) 1,2,4-Trichlorobenzene	14.91	180	714562	260.253	ug/l	99
90) Hexachlorobutadiene	15.01	225	404085	178.324	ug/l	98
91) Naphthalene	15.13	128	1886437	281.016	ug/l	99
92) 1,2,3-Trichlorobenzene	15.31	180	703359	243.455	ug/l	98

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ClientSampleId :
VSTDICC150

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QLast Update : Thu May 23 05:31:08 2019
Response via : Initial Calibration

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

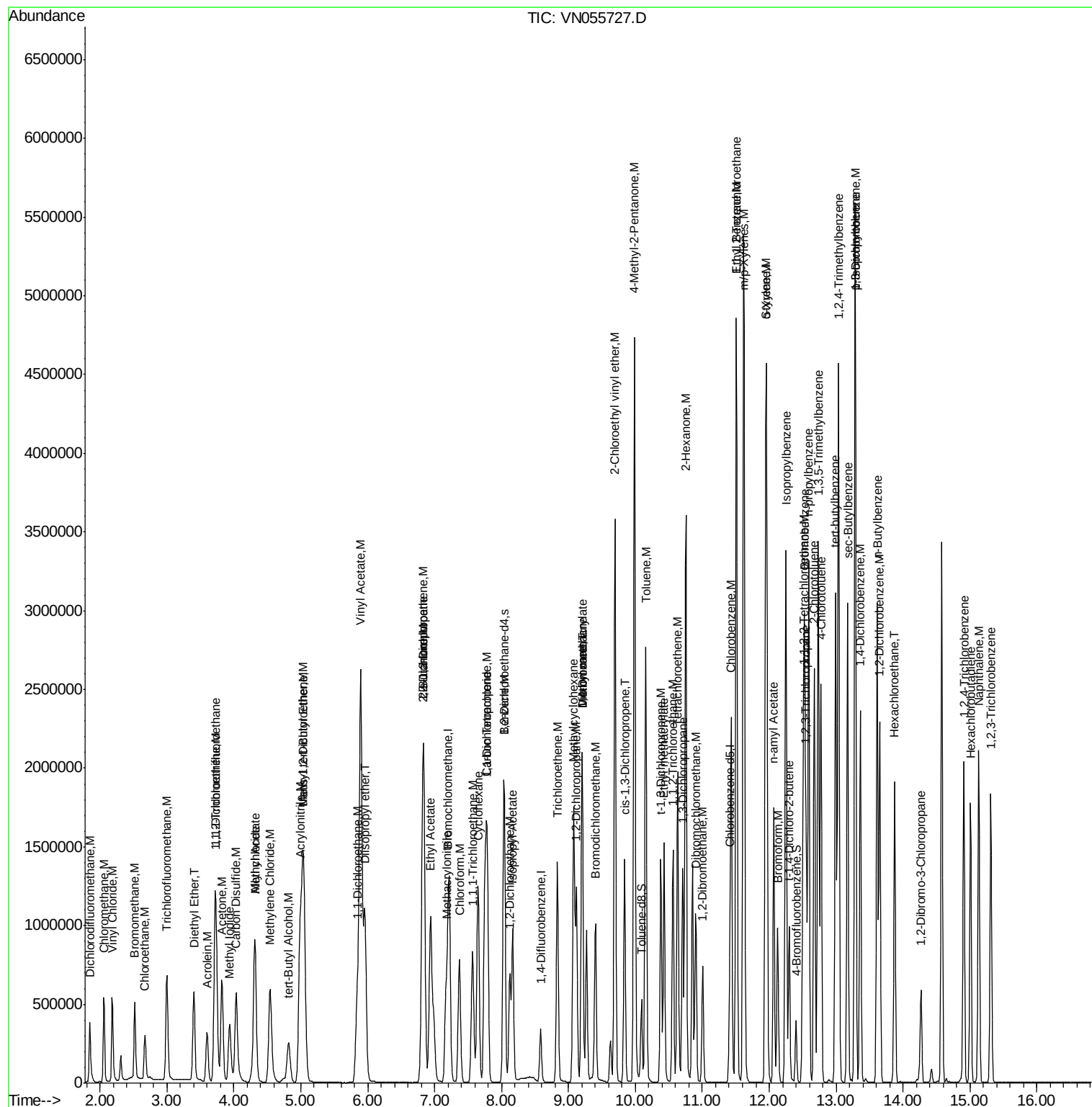
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 Data File : VN055727.D
 Acq On : 22 May 2019 18:37
 Operator : JC/SP
 Sample : VSTDIC150
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 7 Sample Multiplier: 1

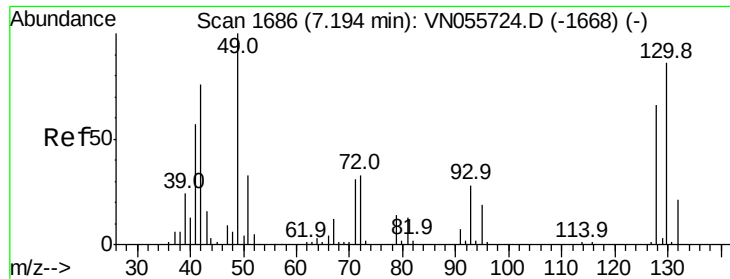
Instrument :
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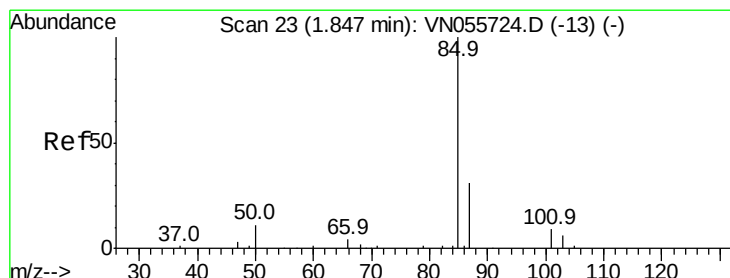
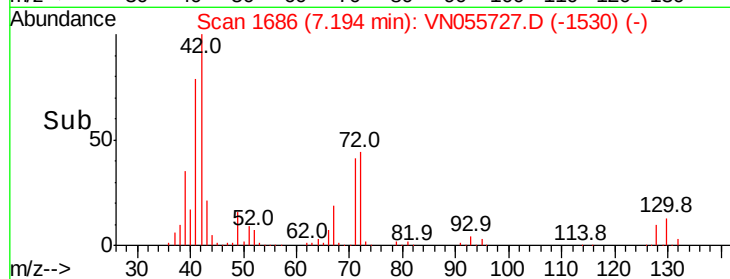
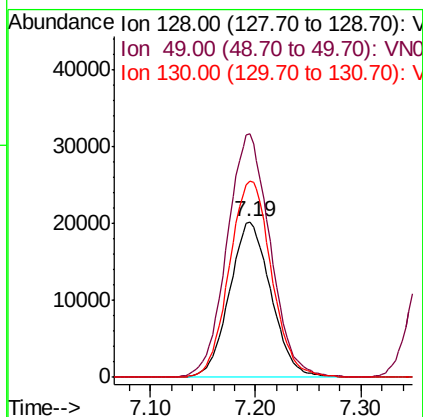
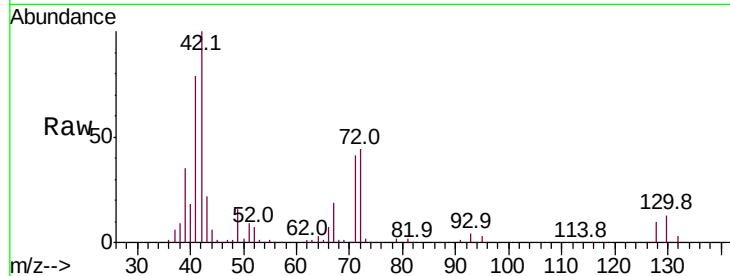
#1
 Bromochloromethane
 Concen: 30.000 ug/l
 RT: 7.19 min Scan# 1686
 Delta R.T. 0.00 min
 Lab File: VN055727.D
 Acq: 22 May 2019 18:37

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC150

Tot Ion	Ratio	Lower	Upper
128	100		
49	163.3	0.0	383.2
130	128.9	0.0	326.3

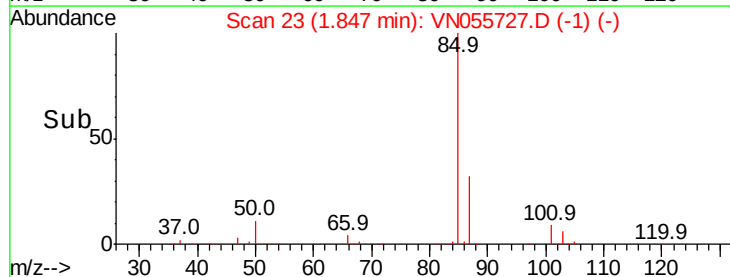
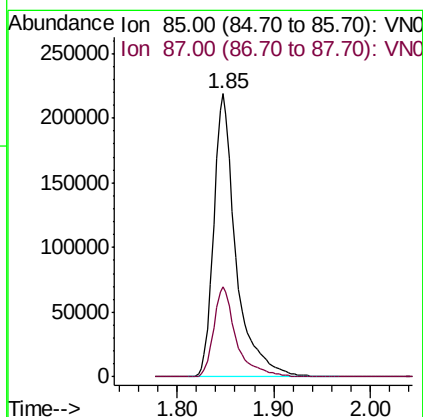
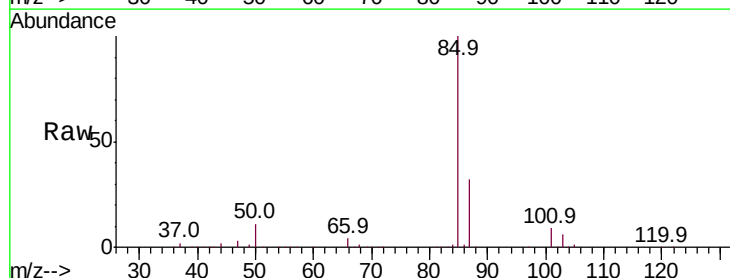
Manual Integrations
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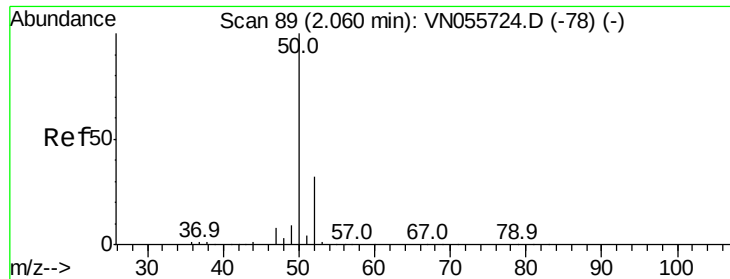
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#2
 Dichlorodifluoromethane
 Concen: 120.557 ug/l
 RT: 1.85 min Scan# 23
 Delta R.T. 0.00 min
 Lab File: VN055727.D
 Acq: 22 May 2019 18:37

Tgt Ion	Ratio	Lower	Upper
85	100		
87	31.9	15.7	47.0





#3

Chloromethane

Concen: 124.170 ug/l

RT: 2.06 min Scan# 88

Delta R.T. -0.00 min

Lab File: VN055727.D

Acq: 22 May 2019 18:37

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion: 50 Resp: 508909

Ion Ratio Lower Upper

50 100

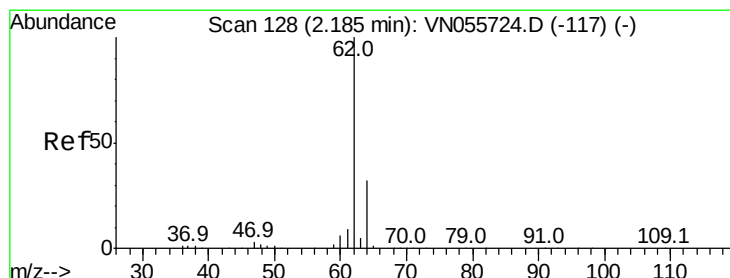
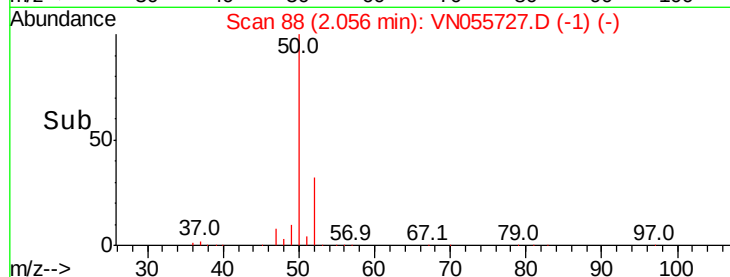
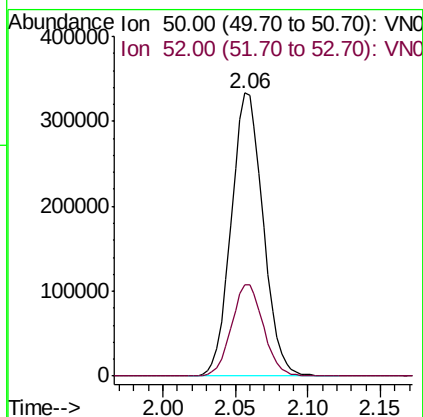
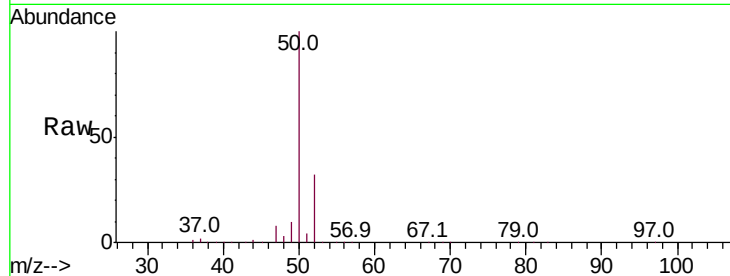
52 32.5 25.4 38.2

Manual Integrations

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#4

Vinyl Chloride

Concen: 150.863 ug/l

RT: 2.18 min Scan# 127

Delta R.T. -0.00 min

Lab File: VN055727.D

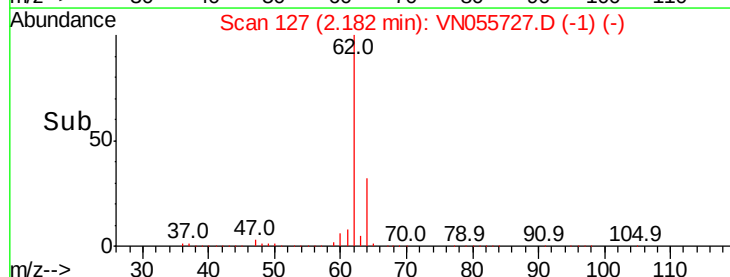
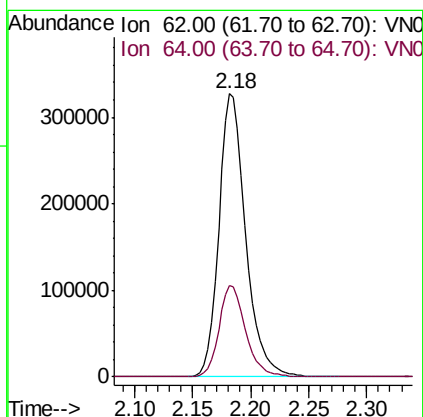
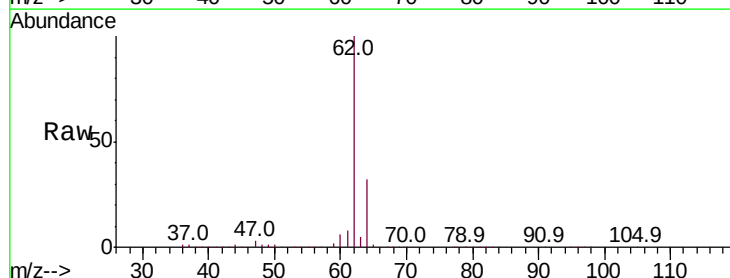
Acq: 22 May 2019 18:37

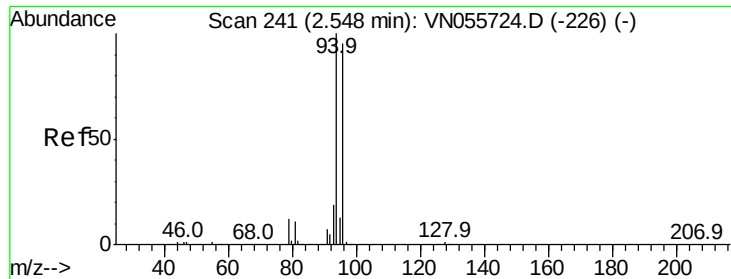
Tgt Ion: 62 Resp: 522265

Ion Ratio Lower Upper

62 100

64 32.1 25.7 38.5





#5

Bromomethane

Concen: 139.198 ug/l

RT: 2.52 min Scan# 232

Delta R.T. -0.03 min

Lab File: VN055727.D

Acq: 22 May 2019 18:37

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion: 94 Resp: 274606

Ion Ratio Lower Upper

94 100

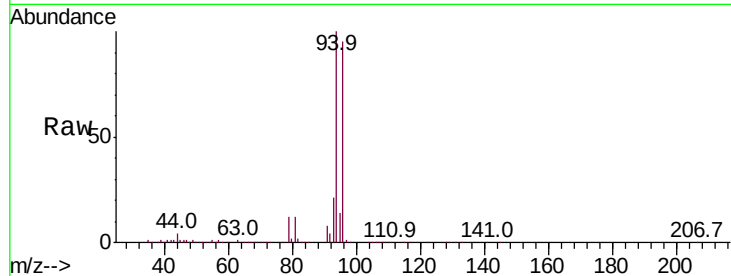
96 95.0 75.8 113.8

Manual Integrations

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Abundance Ion 94.00 (93.70 to 94.70): VN0

Ion 96.00 (95.70 to 96.70): VN0

200000

150000

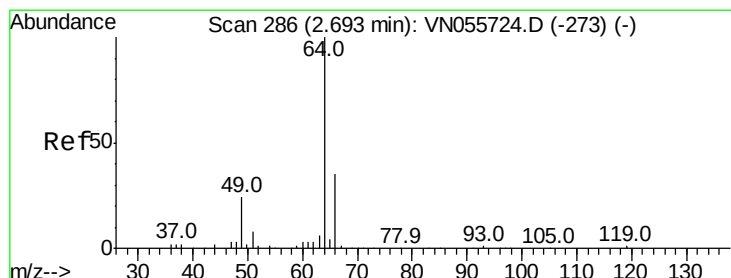
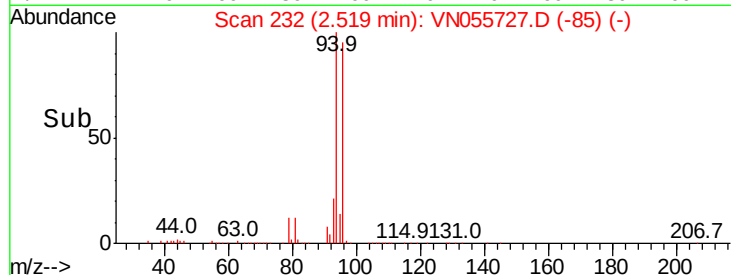
100000

50000

0

2.45 2.50 2.55 2.60

Time-->



#6

Chloroethane

Concen: 150.318 ug/l

RT: 2.67 min Scan# 279

Delta R.T. -0.02 min

Lab File: VN055727.D

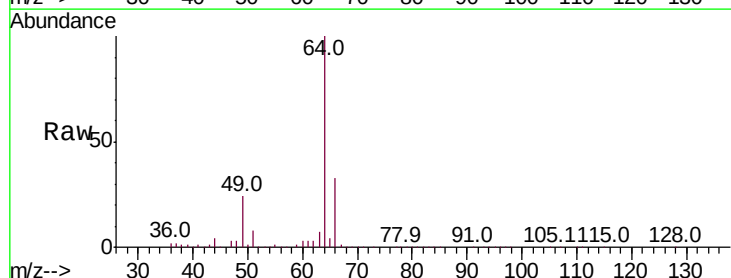
Acq: 22 May 2019 18:37

Tgt Ion: 64 Resp: 294562

Ion Ratio Lower Upper

64 100

66 32.4 27.9 41.9



Abundance Ion 64.00 (63.70 to 64.70): VN0

Ion 66.00 (65.70 to 66.70): VN0

150000

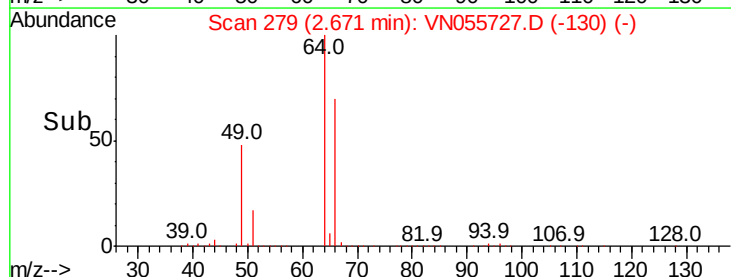
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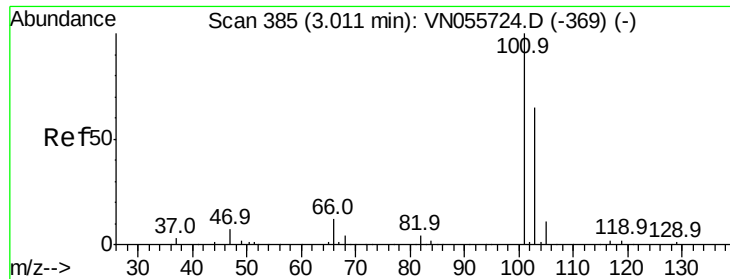
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0

2.60 2.65 2.70 2.75

Time-->





#7

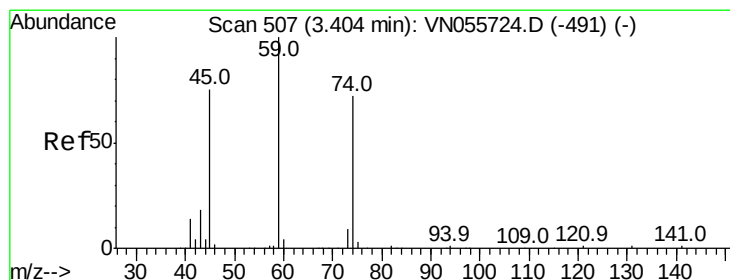
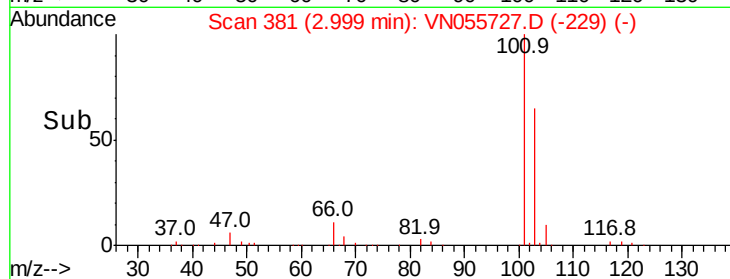
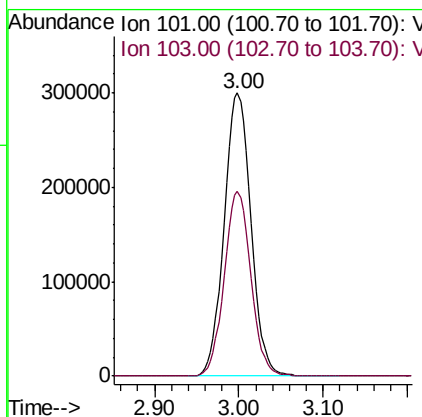
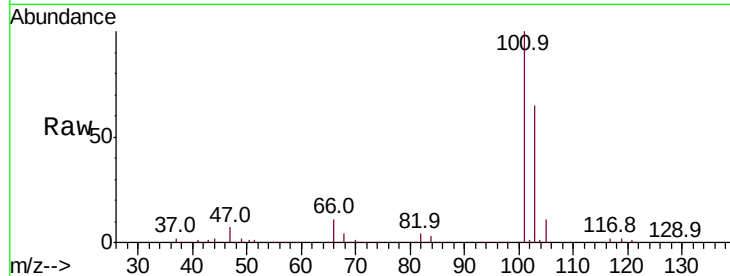
Trichlorofluoromethane
 Concen: 134.571 ug/l
 RT: 3.00 min Scan# 381
 Delta R.T. -0.01 min
 Lab File: VN055727.D
 Acq: 22 May 2019 18:37

Instrument :
 MSVOA_N
 ClientSampleId :
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Tot Ion	Ratio	Lower	Upper
101	100		
103	65.1	52.6	78.8

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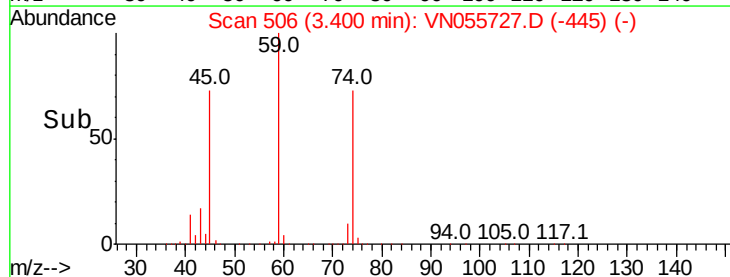
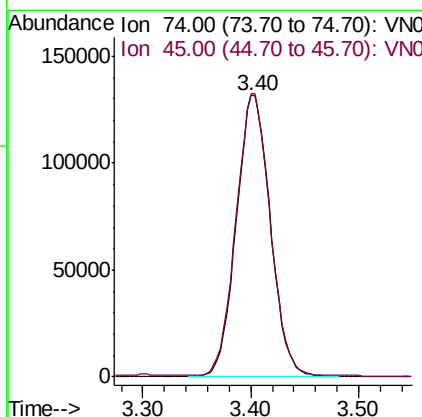
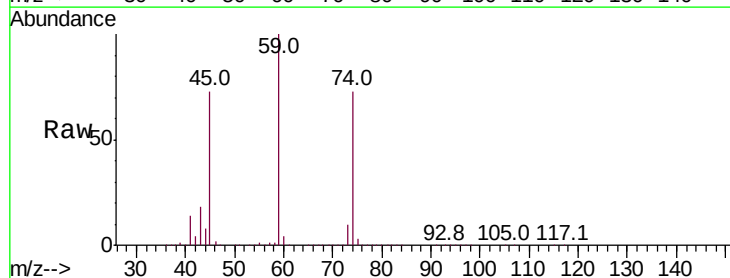
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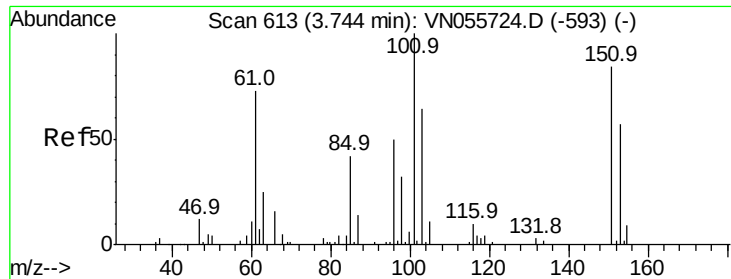


#8

Diethyl Ether
 Concen: 141.020 ug/l
 RT: 3.40 min Scan# 506
 Delta R.T. -0.00 min
 Lab File: VN055727.D
 Acq: 22 May 2019 18:37

Tgt Ion	Ratio	Lower	Upper
74	100		
45	99.9	20.4	184.0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 131.008 ug/l

RT: 3.74 min Scan# 611

Delta R.T. -0.01 min

Lab File: VN055727.D

Acq: 22 May 2019 18:37

Instrument :

MSVOA_N

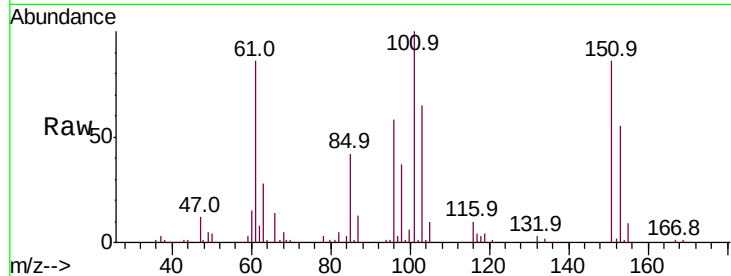
ClientSampleId :

VSTDIC150

Tot Ion:	101	Resp:	410853
Ion Ratio	Lower	Upper	
101	100		
85	42.0	0.0	86.6
151	85.6	0.0	172.2

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APPROVED

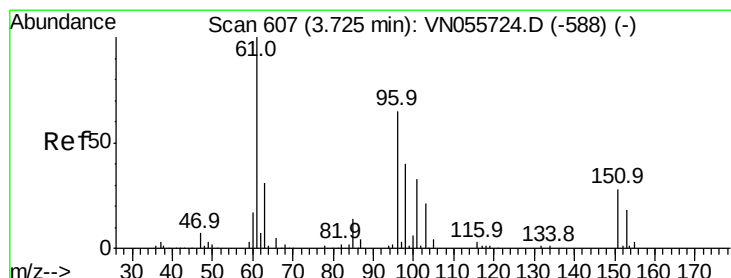
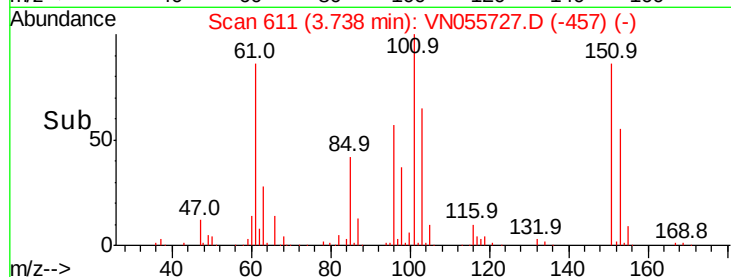
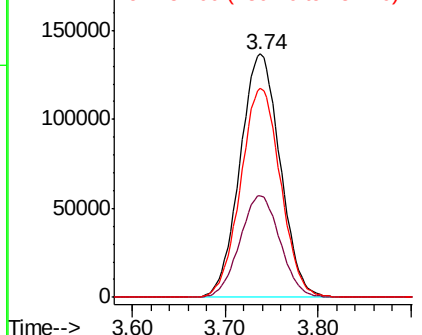
MMDadoda
5/23/2019 12:31:26 PM



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VNO

Ion 151.00 (150.70 to 151.70): V



#10

1,1-Dichloroethene

Concen: 145.048 ug/l

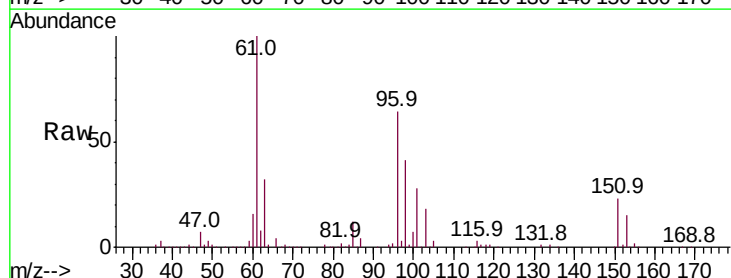
RT: 3.72 min Scan# 604

Delta R.T. -0.01 min

Lab File: VN055727.D

Acq: 22 May 2019 18:37

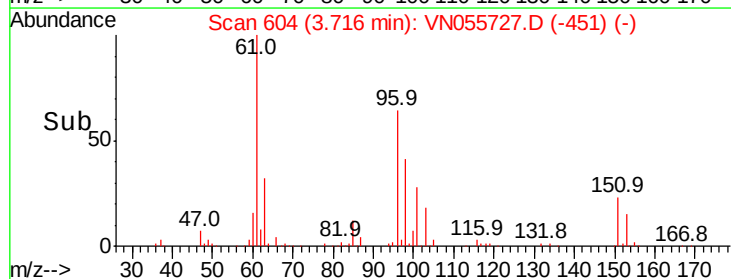
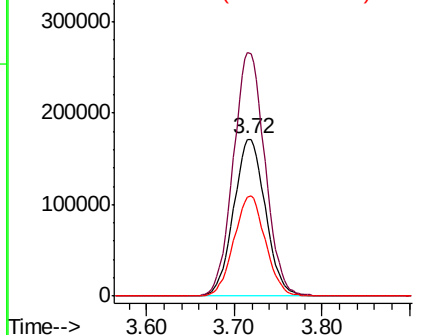
Tgt Ion:	96	Resp:	433599
Ion Ratio	Lower	Upper	
96	100		
61	155.5	123.7	185.5
98	63.4	50.0	75.0

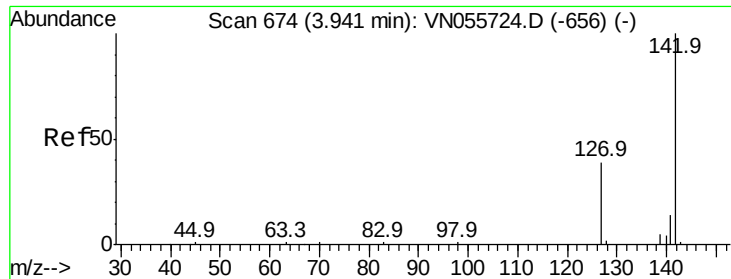


Abundance Ion 96.00 (95.70 to 96.70): VNO

Ion 61.00 (60.70 to 61.70): VNO

Ion 98.00 (97.70 to 98.70): VNO





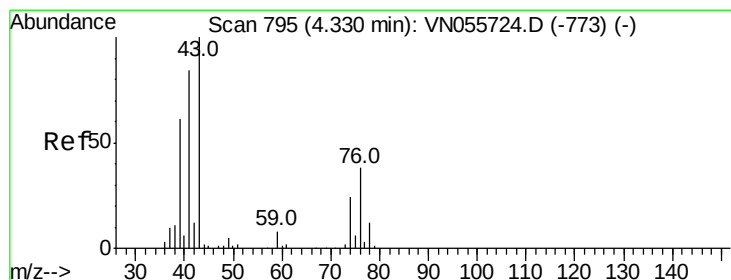
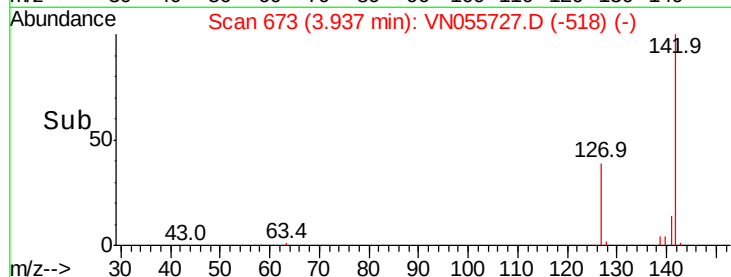
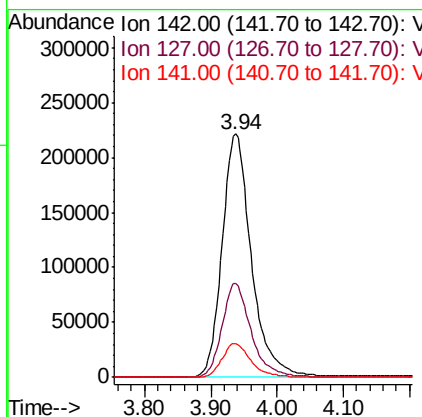
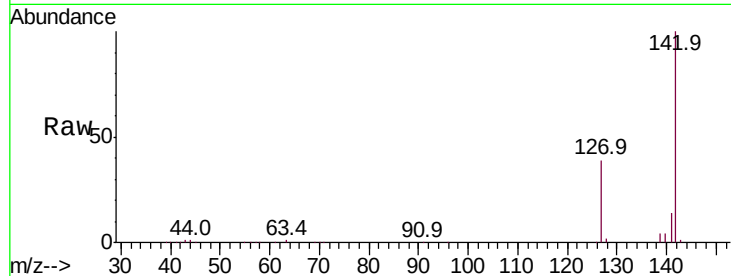
#11
Methvl Iodide
Concen: 147.651 ug/l
RT: 3.94 min Scan# 673
Delta R.T. -0.00 min
Lab File: VN055727.D
Acq: 22 May 2019 18:37

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tot Ion	Ratio	Lower	Upper
142	100		
127	38.7	19.6	58.7
141	13.9	6.9	20.6

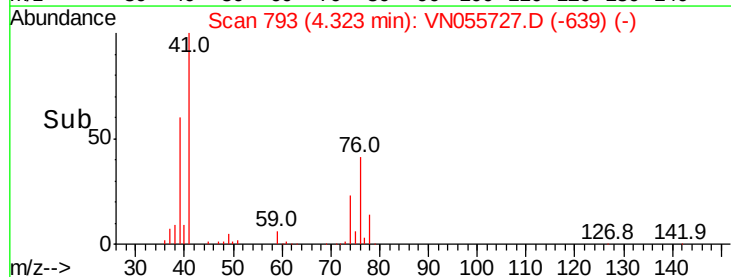
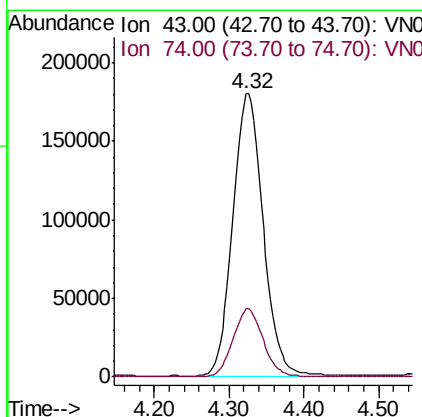
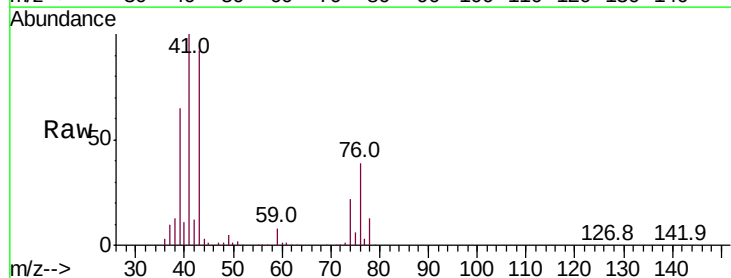
Manual Integrations
APPROVED

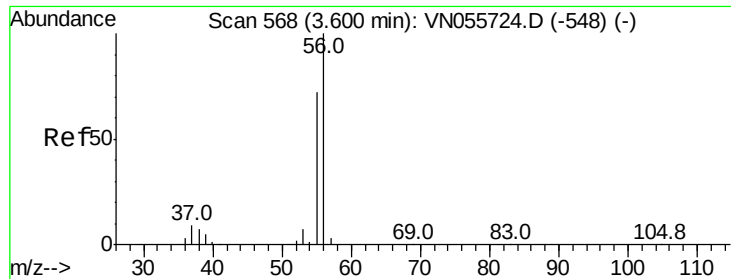
MMDadoda
5/23/2019 12:31:26 PM



#12
Methyl Acetate
Concen: 121.446 ug/l
RT: 4.32 min Scan# 793
Delta R.T. -0.01 min
Lab File: VN055727.D
Acq: 22 May 2019 18:37

Tgt Ion	Ratio	Lower	Upper
43	100		
74	24.3	19.2	28.8





#13

Acrolein

Concen: 1443.978 ug/l

RT: 3.60 min Scan# 568

Delta R.T. 0.00 min

Lab File: VN055727.D

Acq: 22 May 2019 18:37

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion: 56 Resp: 365454

Ion Ratio Lower Upper

56 100

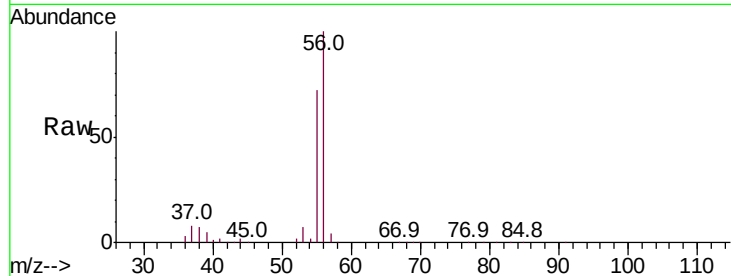
55 71.0 57.0 85.6

Manual Integrations

APPROVED

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Abundance Ion 56.00 (55.70 to 56.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

3.60

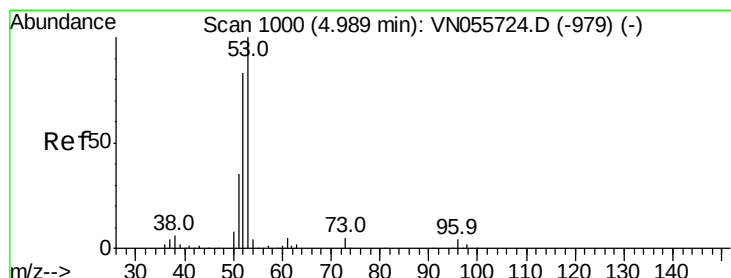
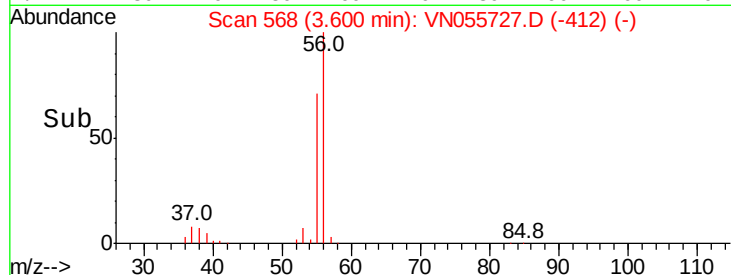
150000

100000

50000

0

Time-->



#14

Acrylonitrile

Concen: 796.641 ug/l

RT: 4.99 min Scan# 1000

Delta R.T. 0.00 min

Lab File: VN055727.D

Acq: 22 May 2019 18:37

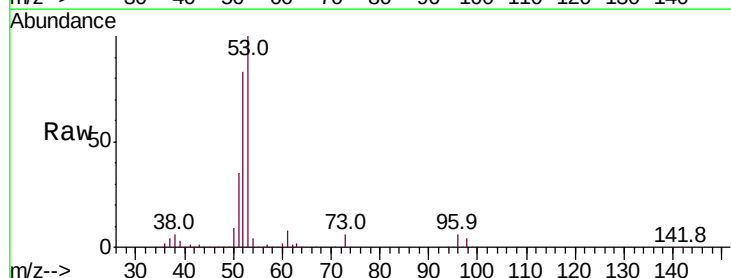
Tgt Ion: 53 Resp: 1242212

Ion Ratio Lower Upper

53 100

52 82.6 41.1 123.4

51 35.2 17.5 52.6



Abundance Ion 53.00 (52.70 to 53.70): VNO

Ion 52.00 (51.70 to 52.70): VNO

Ion 51.00 (50.70 to 51.70): VNO

4.99

500000

400000

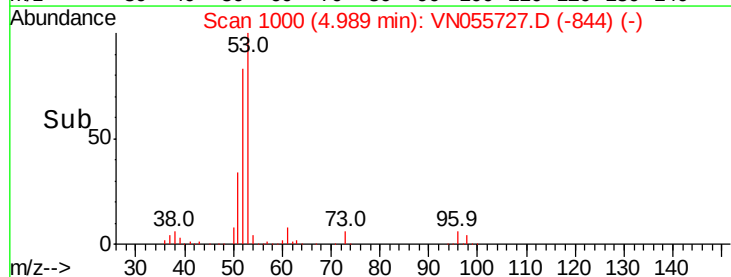
300000

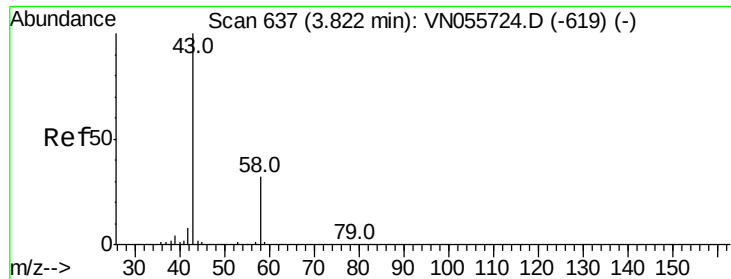
200000

100000

0

Time-->





#15

Acetone

Concen: 884.691 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.00 min

Lab File: VN055727.D

Acq: 22 May 2019 18:37

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion: 58 Resp: 354246

Ion Ratio Lower Upper

58 100

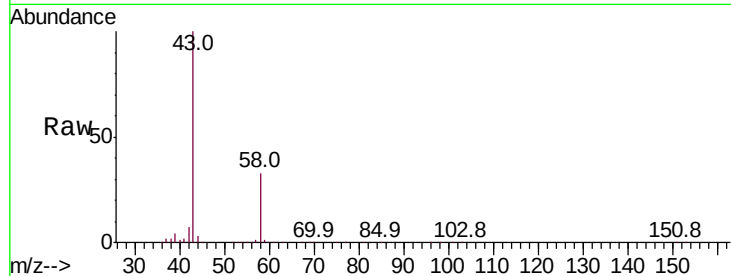
43 305.5 248.8 373.2

Manual Integrations

APPROVED

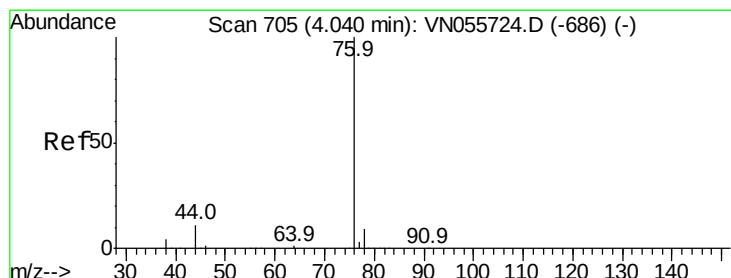
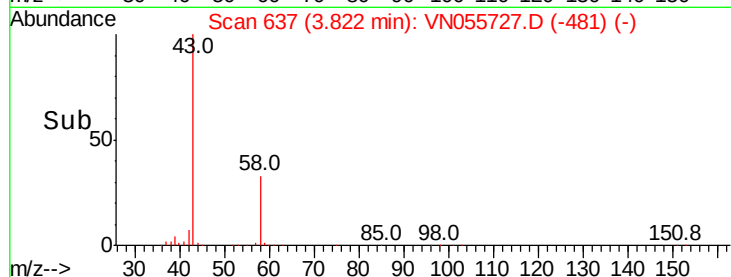
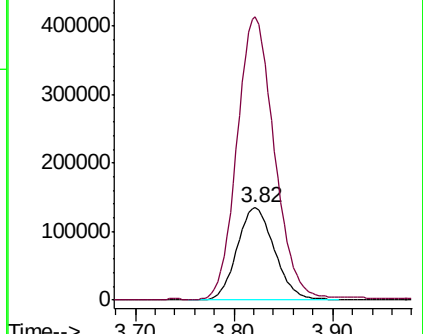
MMDadoda

5/23/2019 12:31:26 PM



Abundance Ion 58.00 (57.70 to 58.70): VN0

Ion 43.00 (42.70 to 43.70): VN0



#16

Carbon Disulfide

Concen: 154.284 ug/l

RT: 4.04 min Scan# 704

Delta R.T. -0.00 min

Lab File: VN055727.D

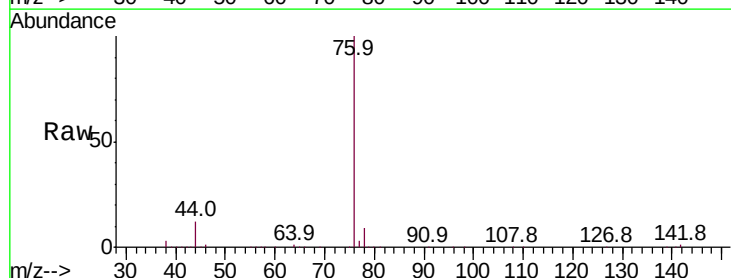
Acq: 22 May 2019 18:37

Tgt Ion: 76 Resp: 1277365

Ion Ratio Lower Upper

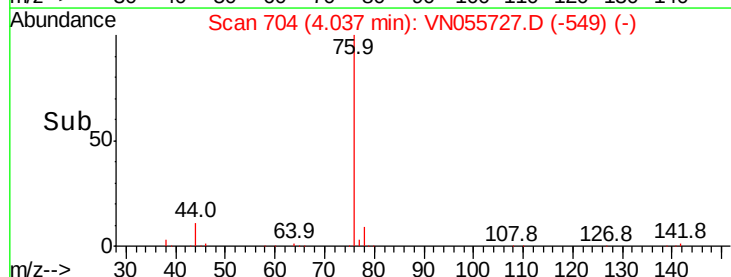
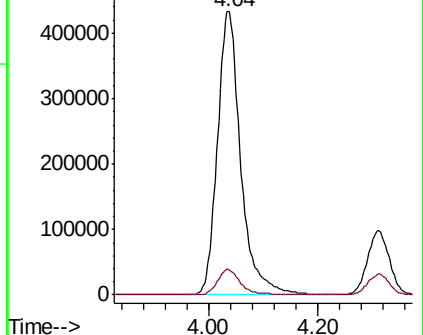
76 100

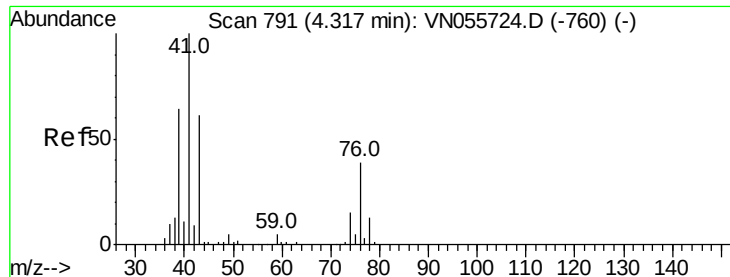
78 8.9 7.4 11.0



Abundance Ion 76.00 (75.70 to 76.70): VN0

Ion 78.00 (77.70 to 78.70): VN0





#17

Allvl chloride

Concen: 126.392 ug/l

RT: 4.31 min Scan# 789

Delta R.T. -0.01 min

Lab File: VN055727.D

Acq: 22 May 2019 18:37

Instrument :

MSVOA_N

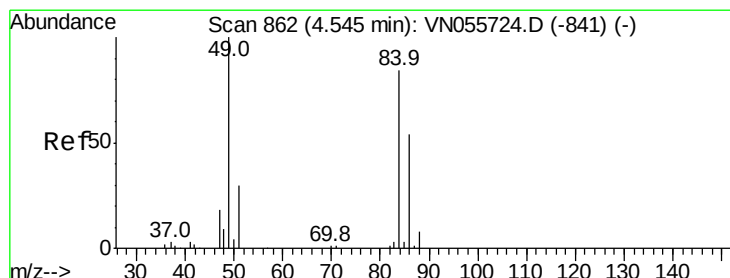
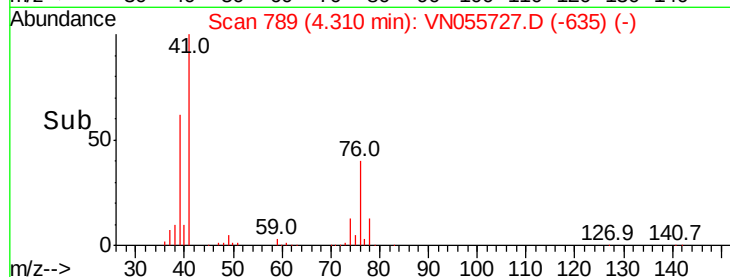
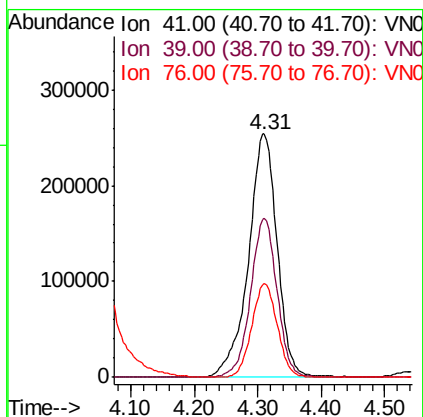
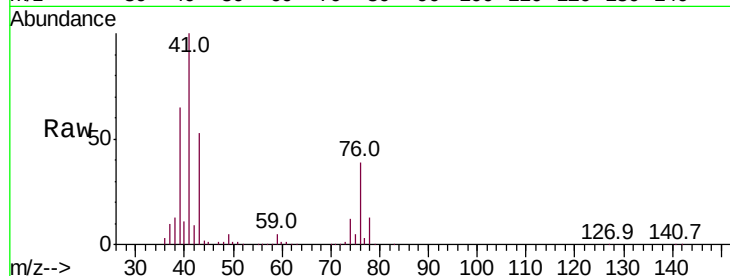
ClientSampleId :

VSTDIC150

Tot Ion:	41	Resp:	793983
Ion Ratio	Lower	Upper	
41	100		
39	65.4	31.8	95.3
76	38.6	19.3	57.9

Manual Integrations
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#18

Methylene Chloride

Concen: 137.822 ug/l

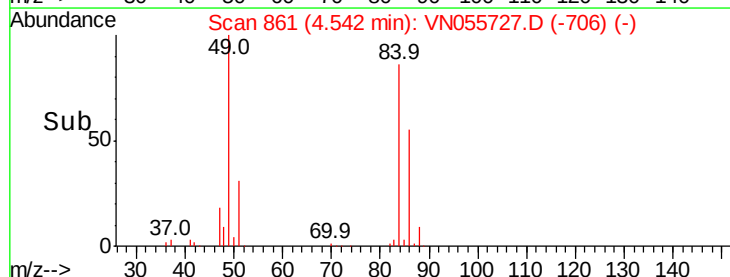
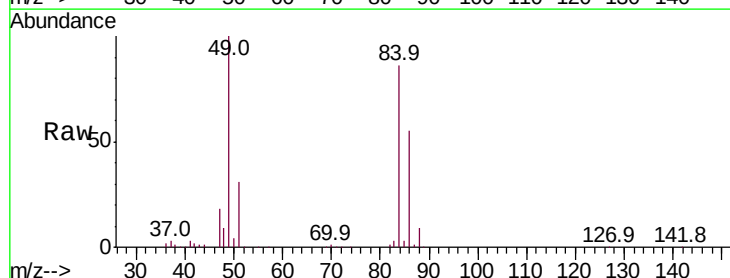
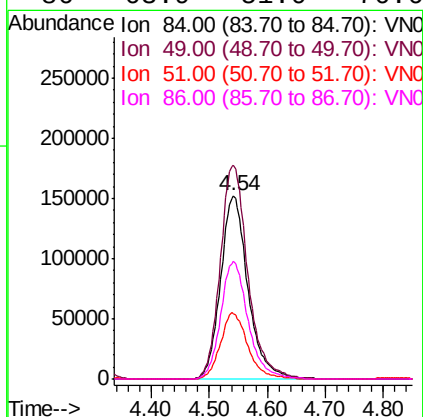
RT: 4.54 min Scan# 861

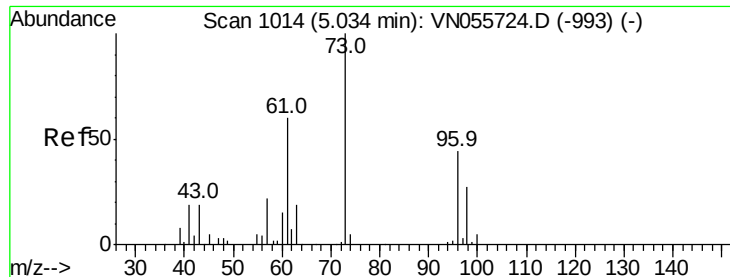
Delta R.T. -0.00 min

Lab File: VN055727.D

Acq: 22 May 2019 18:37

Tgt Ion:	84	Resp:	501632
Ion Ratio	Lower	Upper	
84	100		
49	116.5	94.7	142.1
51	36.0	28.6	43.0
86	63.9	51.0	76.6





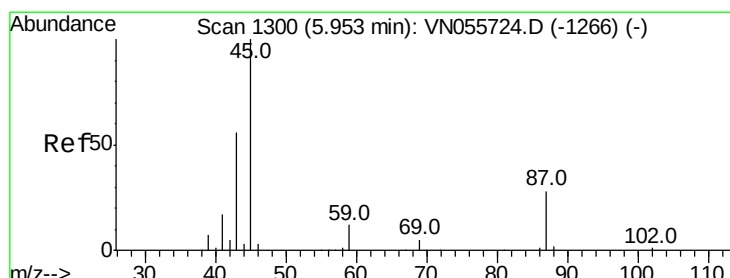
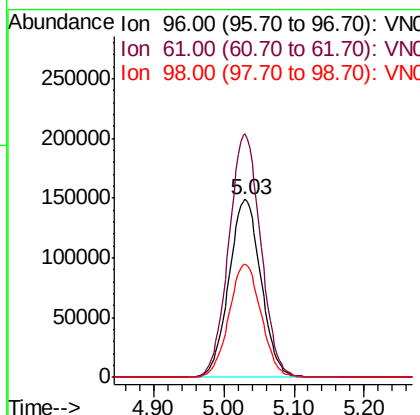
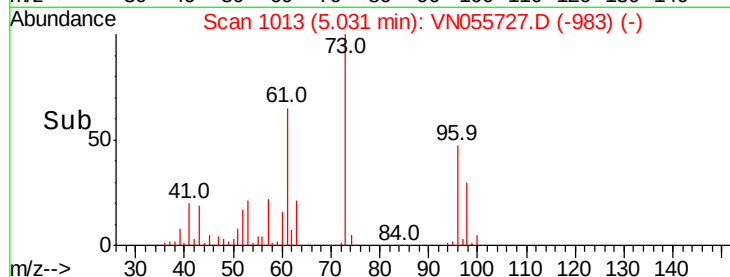
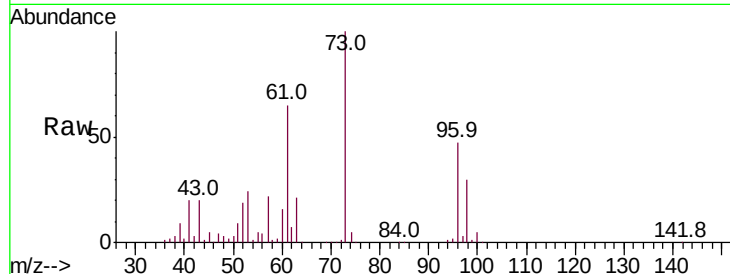
#19
trans-1,2-Dichloroethene
Concen: 145.732 ug/l
RT: 5.03 min Scan# 1013
Delta R.T. -0.00 min
Lab File: VN055727.D
Acq: 22 May 2019 18:37

Instrument :
MSVOA_N
ClientSampled :
VSTDIC150

Tot Ion	Ratio	Lower	Upper
96	100		
61	136.8	108.5	162.7
98	63.6	49.4	74.2

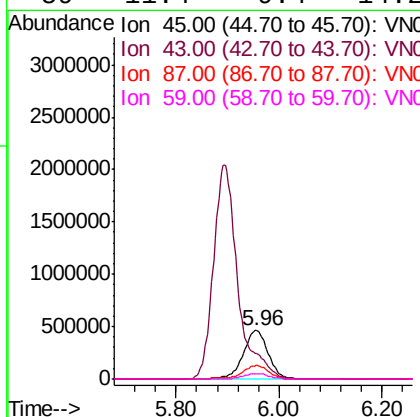
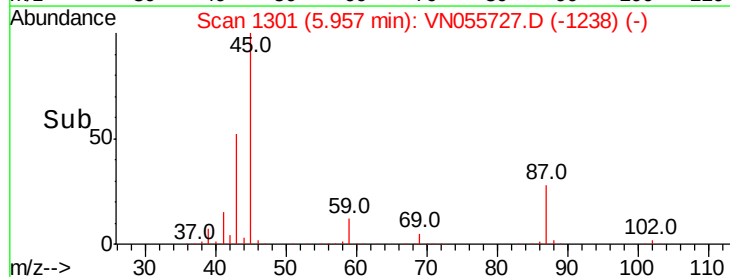
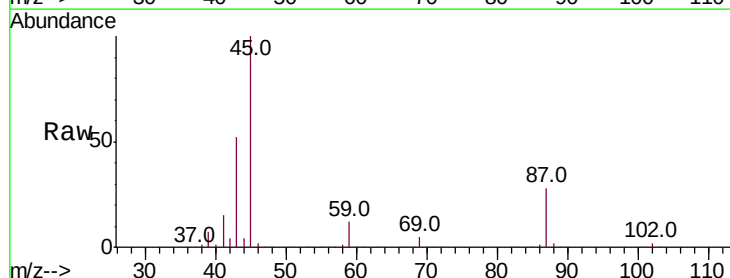
Manual Integrations
APPROVED

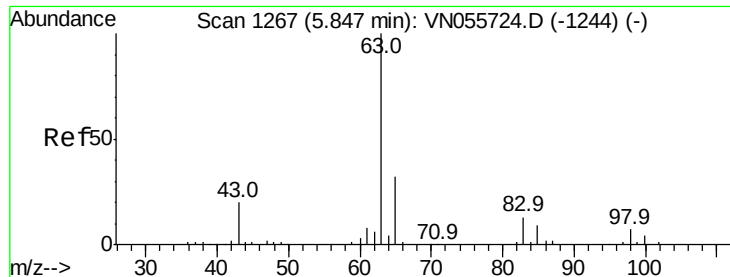
MMDadoda
5/23/2019 12:31:26 PM



#20
Diisopropyl ether
Concen: 124.058 ug/l
RT: 5.96 min Scan# 1301
Delta R.T. 0.00 min
Lab File: VN055727.D
Acq: 22 May 2019 18:37

Tgt Ion	Ratio	Lower	Upper
45	100		
43	52.0	48.6	73.0
87	28.0	22.6	34.0
59	11.4	9.4	14.2





#21

1,1-Dichloroethane

Concen: 130.715 ug/l

RT: 5.84 min Scan# 1266

Delta R.T. -0.00 min

Lab File: VN055727.D

Acq: 22 May 2019 18:37

Instrument :

MSVOA_N

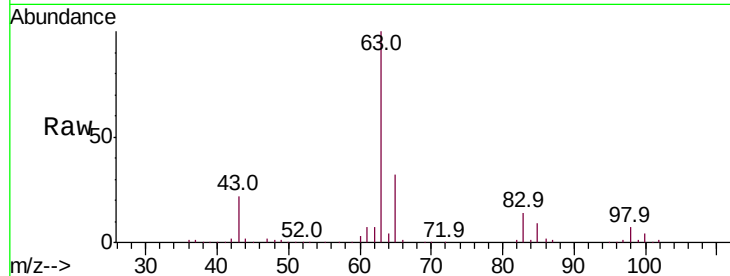
ClientSampleId :

VSTDIC150

Tot Ion:	63	Resp:	865493
Ion Ratio	Lower	Upper	
63	100		
98	6.6	3.4	10.2
100	4.3	2.2	6.6

Manual Integrations
APPROVED

MMDadoda
5/23/2019 12:31:26 PM

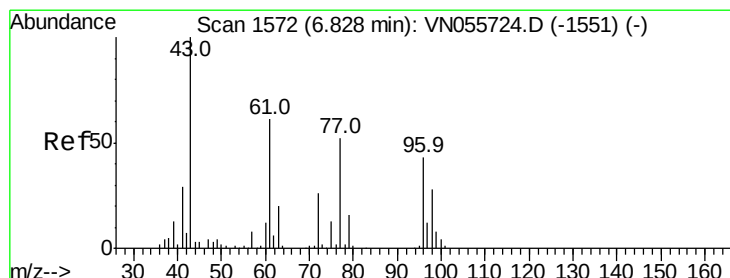
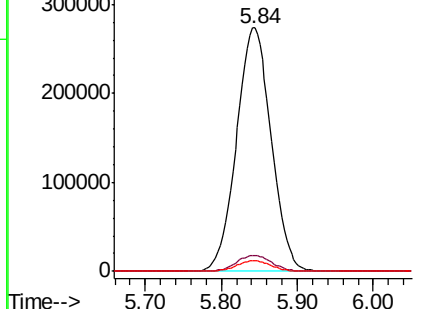
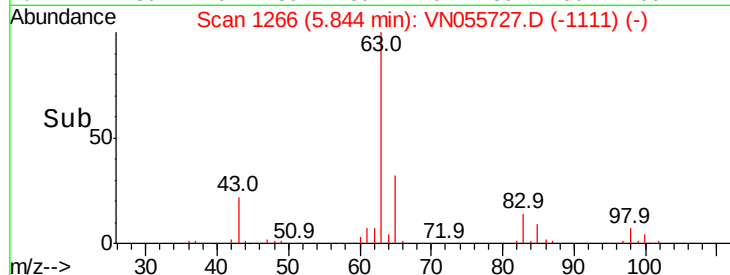


Abundance Ion 63.00 (62.70 to 63.70): VN055724.D (-1244) (-)

Ion 98.00 (97.70 to 98.70): VN055724.D (-1244) (-)

Ion 100.00 (99.70 to 100.70): VN055724.D (-1244) (-)

Time-->



#22

cis-1,2-Dichloroethene

Concen: 147.309 ug/l

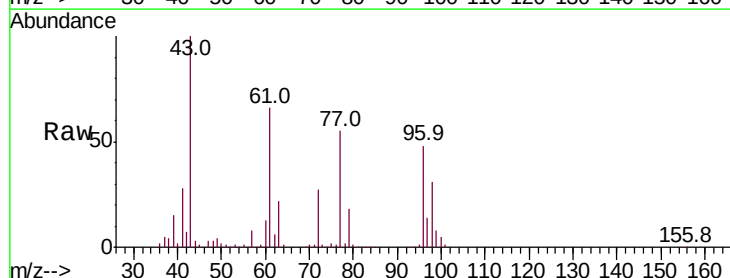
RT: 6.82 min Scan# 1571

Delta R.T. -0.00 min

Lab File: VN055727.D

Acq: 22 May 2019 18:37

Tgt Ion:	96	Resp:	557689
Ion Ratio	Lower	Upper	
96	100		
61	140.6	115.7	173.5
98	64.9	51.5	77.3

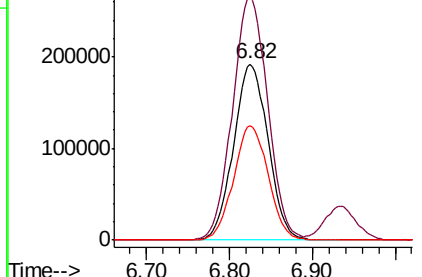
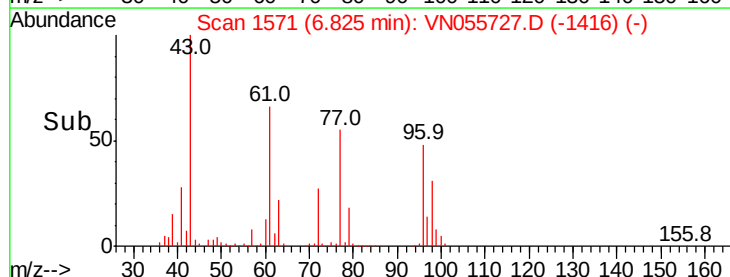


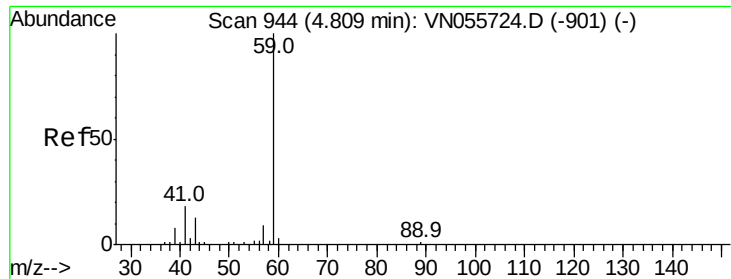
Abundance Ion 96.00 (95.70 to 96.70): VN055724.D (-1551) (-)

Ion 61.00 (60.70 to 61.70): VN055724.D (-1551) (-)

Ion 98.00 (97.70 to 98.70): VN055724.D (-1551) (-)

Time-->





#23

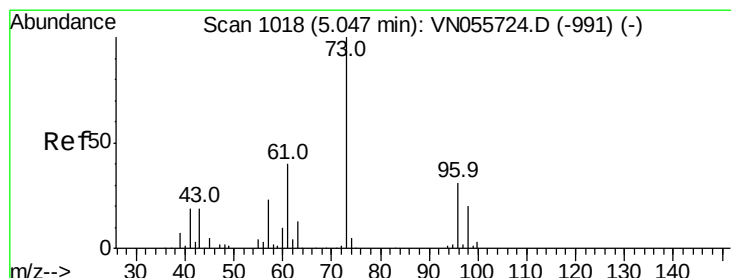
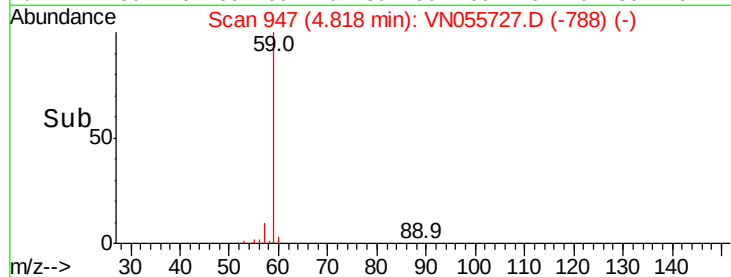
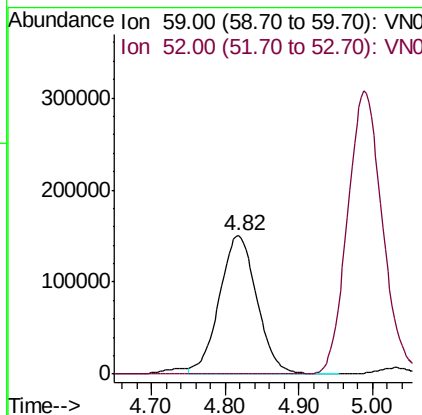
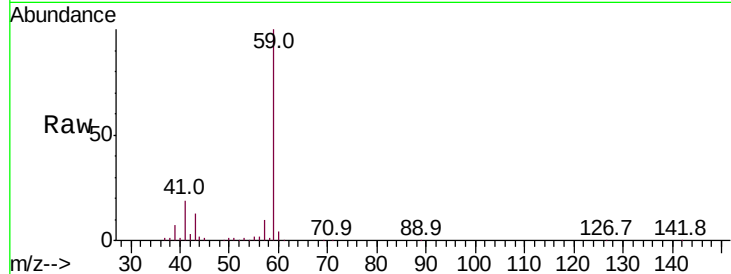
tert-Butyl Alcohol
 Concen: 1222.870 ug/l
 RT: 4.82 min Scan# 947
 Delta R.T. 0.01 min
 Lab File: VN055727.D
 Acq: 22 May 2019 18:37

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC150

Tot Ion	59	52
590121	100	0.1
Resp: 530121	Lower: 0.0	Upper: 0.0#

Manual Integrations
 APPROVED

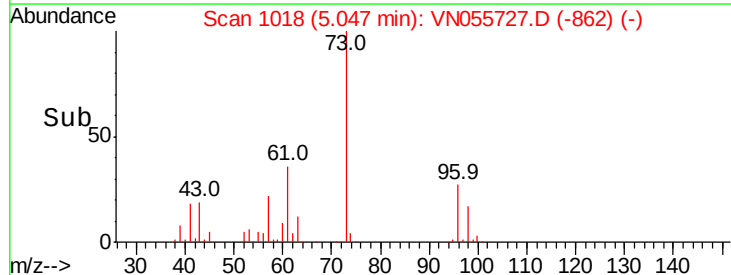
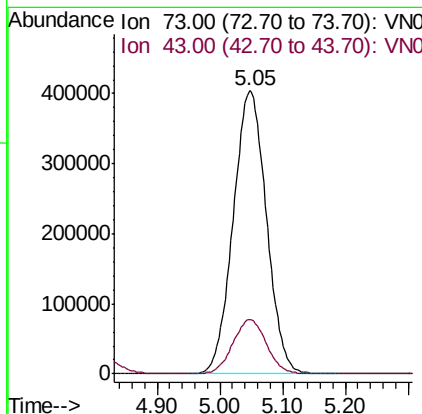
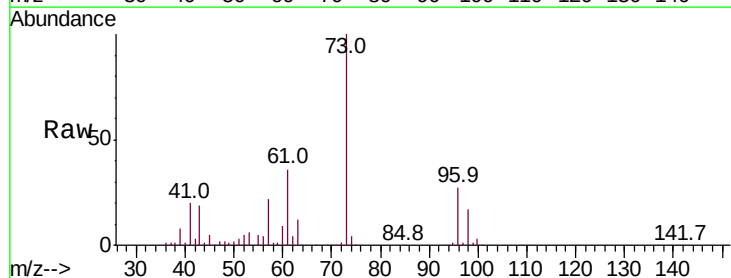
MMDadoda
 5/23/2019 12:31:26 PM

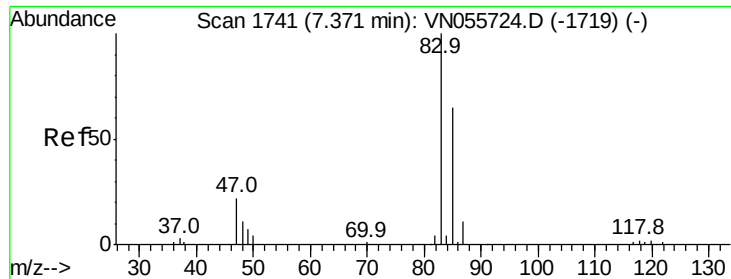


#24

Methyl tert-Butyl Ether
 Concen: 150.948 ug/l
 RT: 5.05 min Scan# 1018
 Delta R.T. 0.00 min
 Lab File: VN055727.D
 Acq: 22 May 2019 18:37

Tgt Ion	73	43
1485551	100	19.2
Resp: 1485551	Lower: 15.7	Upper: 23.5





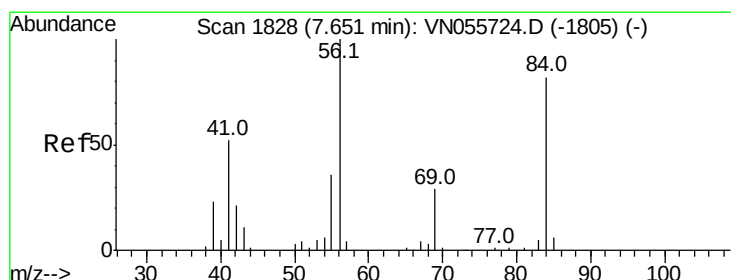
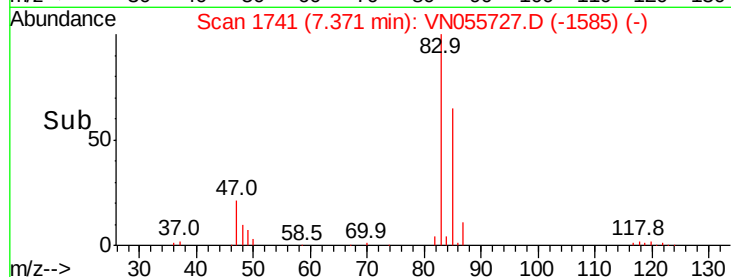
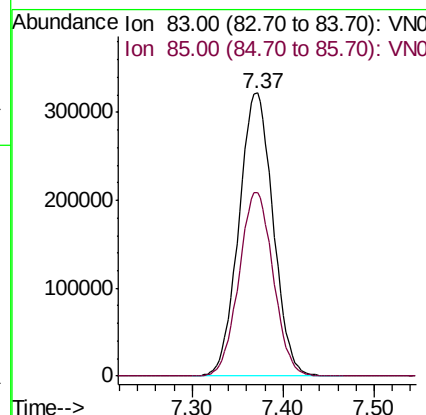
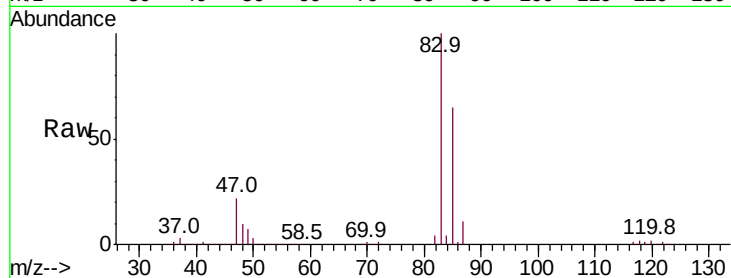
#25
Chloroform
Concen: 133.956 ug/l
RT: 7.37 min Scan# 1741
Delta R.T. 0.00 min
Lab File: VN055727.D
Acq: 22 May 2019 18:37

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tot Ion: 83 Resp: 840749
Ion Ratio Lower Upper
83 100
85 65.0 51.7 77.5

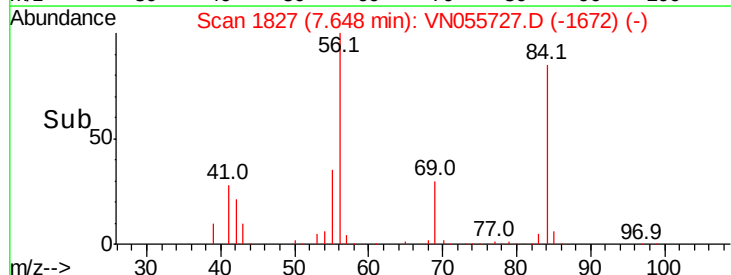
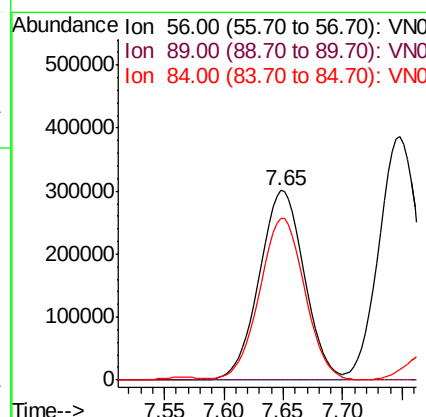
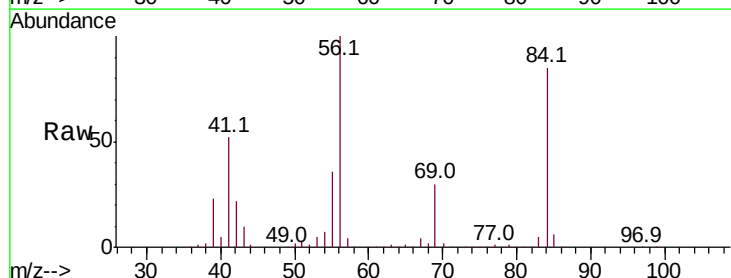
Manual Integrations
APPROVED

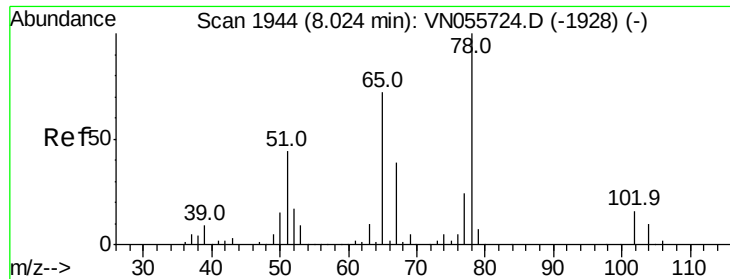
MMDadoda
5/23/2019 12:31:26 PM



#26
Cyclohexane
Concen: 135.075 ug/l
RT: 7.65 min Scan# 1827
Delta R.T. -0.00 min
Lab File: VN055727.D
Acq: 22 May 2019 18:37

Tgt Ion: 56 Resp: 790252
Ion Ratio Lower Upper
56 100
89 0.0 0.0 0.0#
84 85.7 67.2 100.8





#27

1,2-Dichloroethane-d4

Concen: 26.278 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN055727.D

Acq: 22 May 2019 18:37

Tot Ion: 65 Resp: 110683

Ion Ratio Lower Upper

65 100

67 54.8 43.5 65.3

Instrument :

MSVOA_N

ClientSampled :

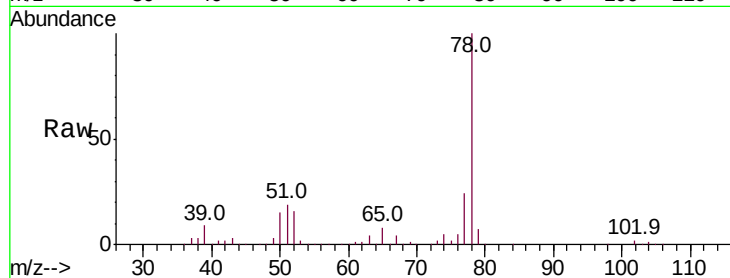
VSTDIC150

Manual Integrations

APPROVED

MMDadoda

5/23/2019 12:31:26 PM



Abundance Ion 65.00 (64.70 to 65.70): VN055727.D (-1928) (-)

Ion 67.00 (66.70 to 67.70): VN055727.D (-1928) (-)

50000

40000

30000

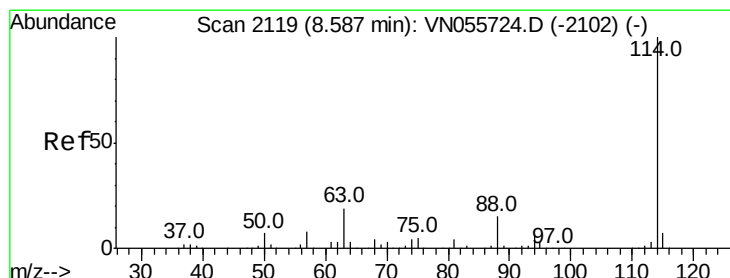
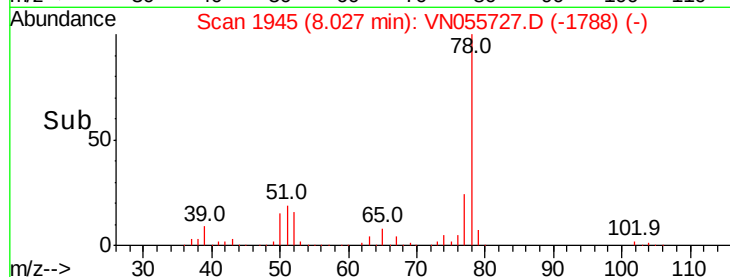
20000

10000

0

7.95 8.00 8.05 8.10

Time-->



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 8.58 min Scan# 2118

Delta R.T. -0.00 min

Lab File: VN055727.D

Acq: 22 May 2019 18:37

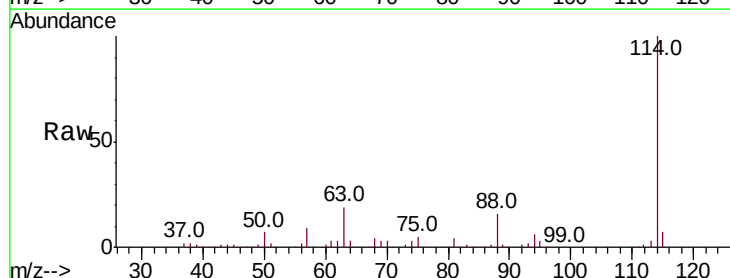
Tgt Ion: 114 Resp: 317119

Ion Ratio Lower Upper

114 100

63 19.2 15.6 23.4

88 15.2 12.3 18.5



Abundance Ion 114.00 (113.70 to 114.70): VN055727.D (-1963) (-)

Ion 63.00 (62.70 to 63.70): VN055727.D (-1963) (-)

Ion 88.00 (87.70 to 88.70): VN055727.D (-1963) (-)

200000

150000

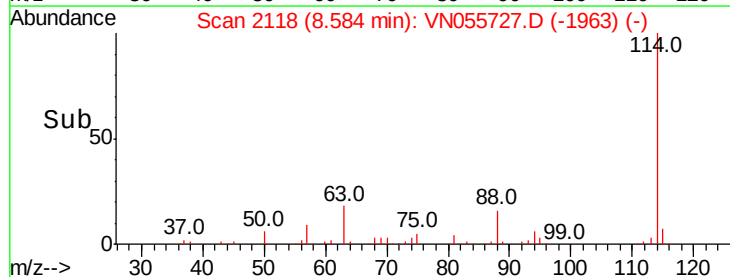
100000

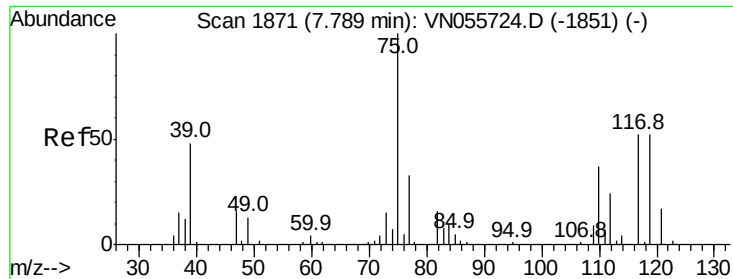
50000

0

8.50 8.55 8.60 8.65

Time-->





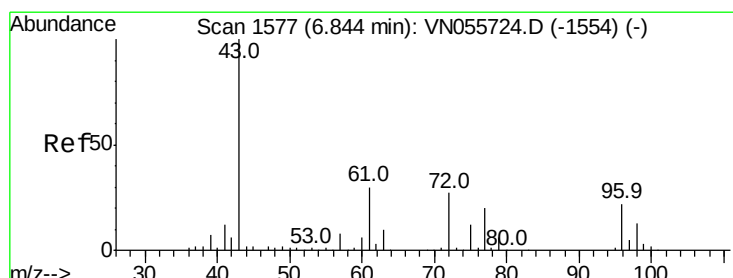
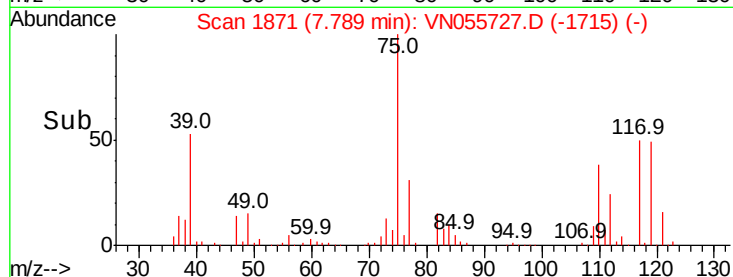
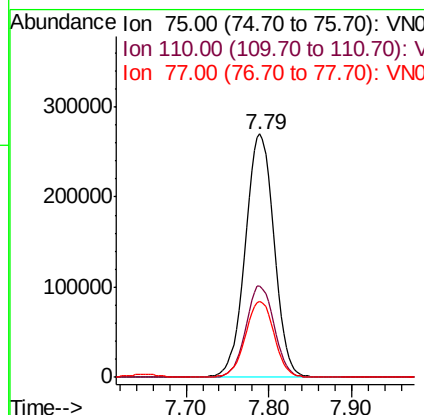
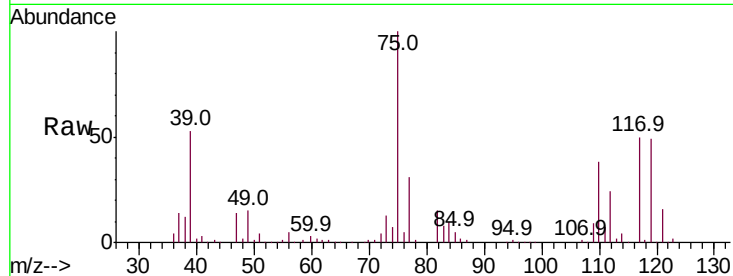
#29
 1,1-Dichloropropene
 Concen: 132.251 ug/l
 RT: 7.79 min Scan# 1871
 Delta R.T. 0.00 min
 Lab File: VN055727.D
 Acq: 22 May 2019 18:37

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC150

Tot Ion	Ratio	Resp	Lower	Upper
75	100	650281		
110	37.2	0.0	74.8	
77	31.4	0.0	65.2	

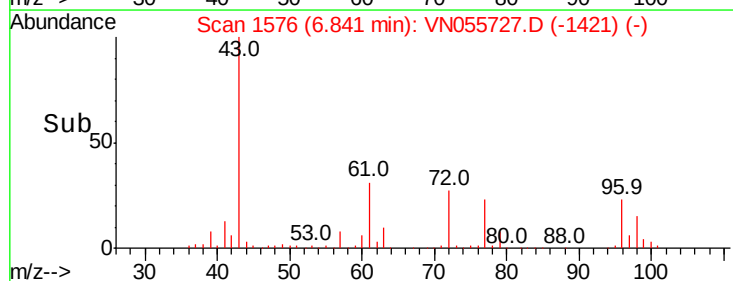
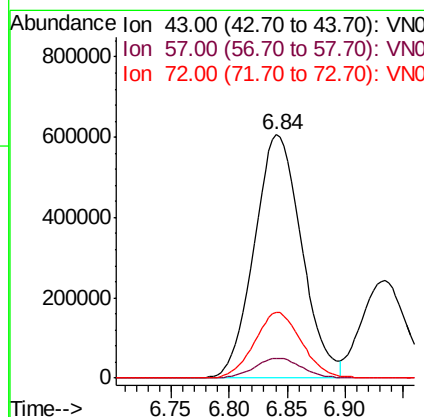
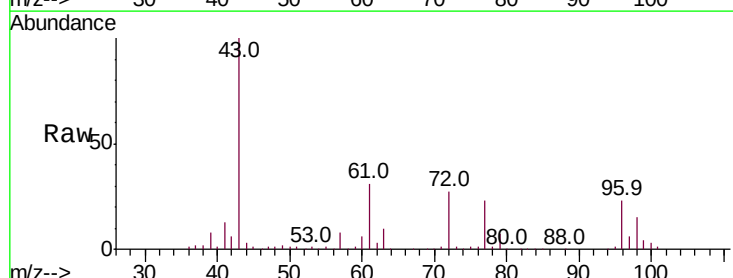
Manual Integrations
 APPROVED

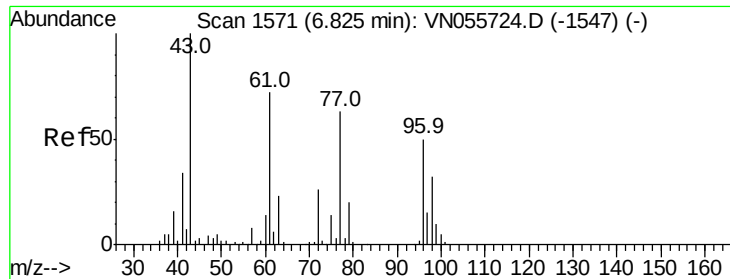
MMDadoda
 5/23/2019 12:31:26 PM



#30
 2-Butanone
 Concen: 816.675 ug/l
 RT: 6.84 min Scan# 1576
 Delta R.T. -0.00 min
 Lab File: VN055727.D
 Acq: 22 May 2019 18:37

Tgt Ion	Ratio	Resp	Lower	Upper
43	100	1715290		
57	8.1	6.6	10.0	
72	27.2	21.7	32.5	





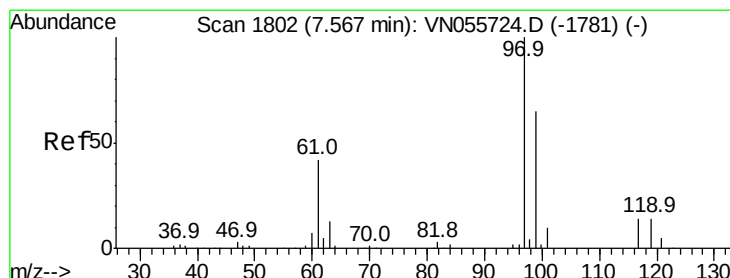
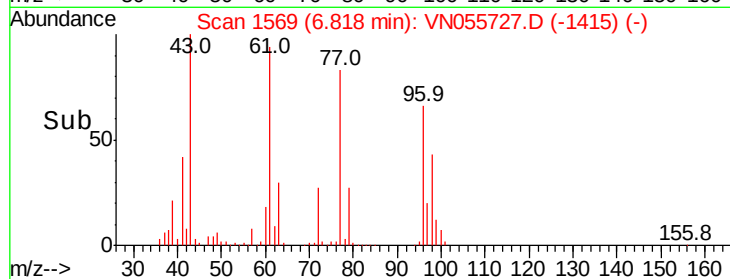
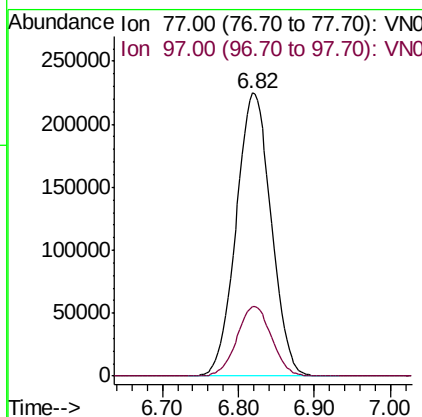
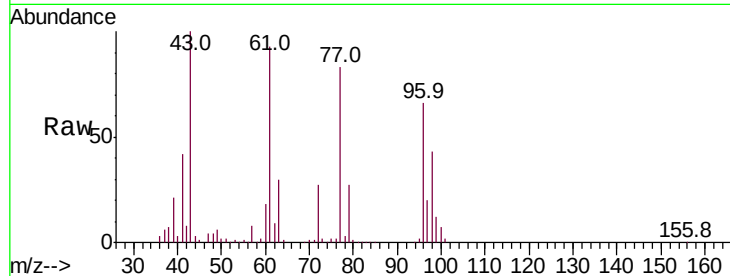
#31
 2,2-Dichloropropane
 Concen: 147.577 ug/l
 RT: 6.82 min Scan# 1569
 Delta R.T. -0.01 min
 Lab File: VN055727.D
 Acq: 22 May 2019 18:37

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDIC150

Tot Ion: 77 Resp: 718024
 Ion Ratio Lower Upper
 77 100
 97 24.4 19.2 28.8

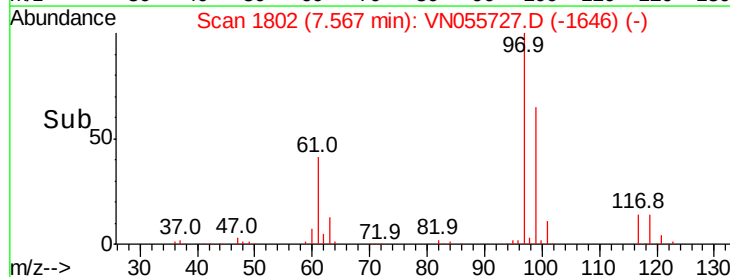
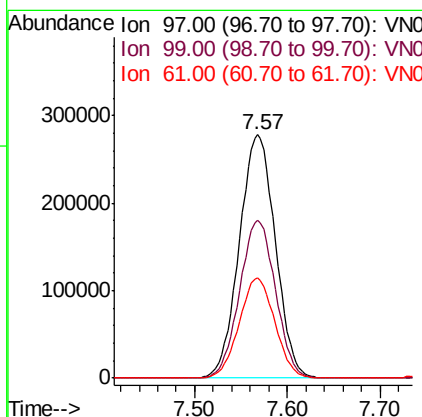
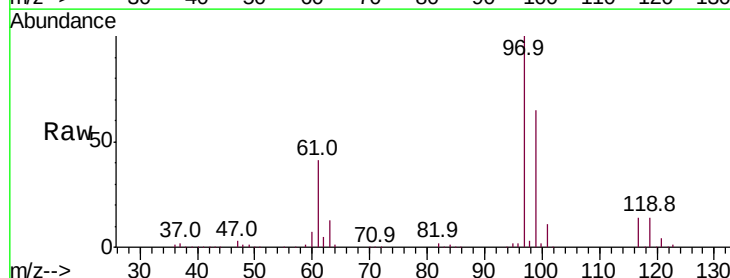
Manual Integrations
 APPROVED

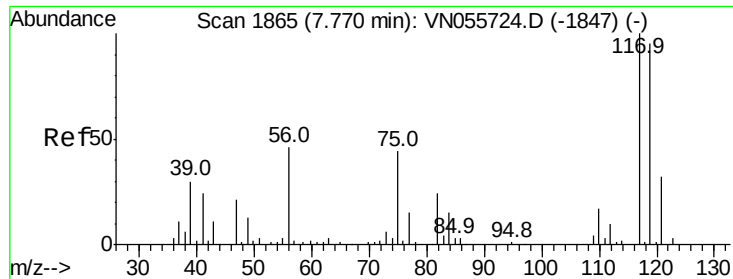
MMDadoda
 5/23/2019 12:31:26 PM



#32
 1,1,1-Trichloroethane
 Concen: 135.776 ug/l
 RT: 7.57 min Scan# 1802
 Delta R.T. 0.00 min
 Lab File: VN055727.D
 Acq: 22 May 2019 18:37

Tgt Ion: 97 Resp: 750824
 Ion Ratio Lower Upper
 97 100
 99 64.6 51.7 77.5
 61 40.9 33.1 49.7





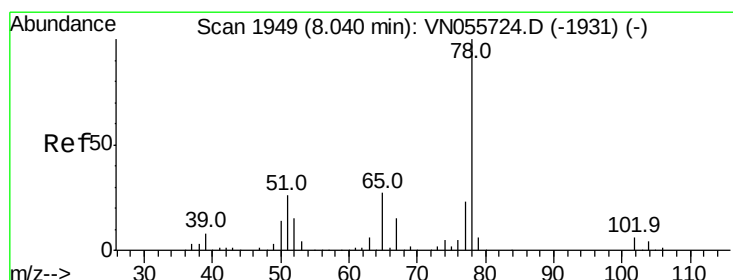
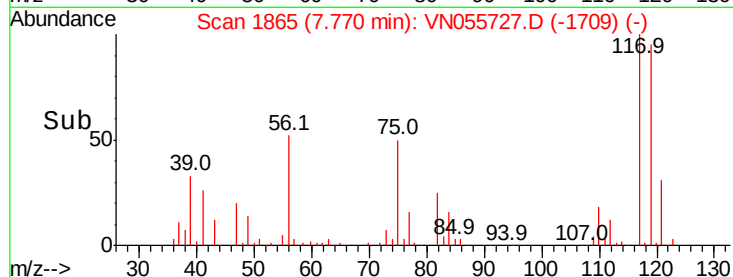
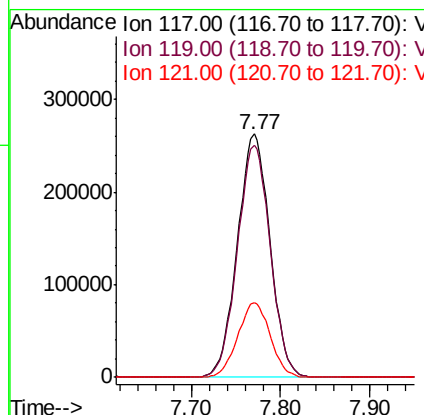
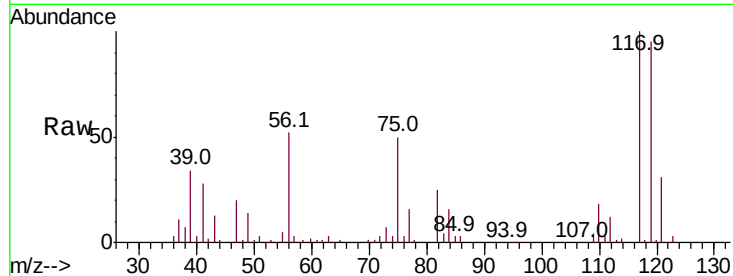
#33
Carbon Tetrachloride
Concen: 141.798 ug/l
RT: 7.77 min Scan# 1865
Delta R.T. 0.00 min
Lab File: VN055727.D
Acq: 22 May 2019 18:37

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tot Ion	Ratio	Lower	Upper
117	100		
119	95.4	75.8	113.8
121	30.6	25.4	38.0

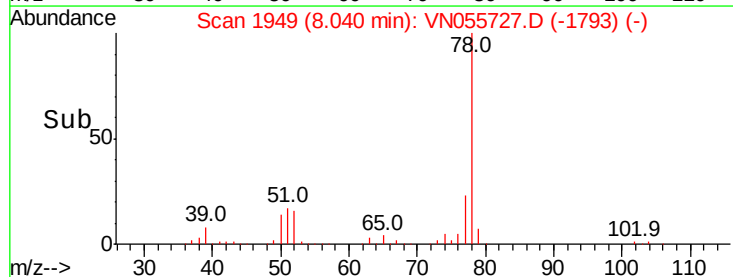
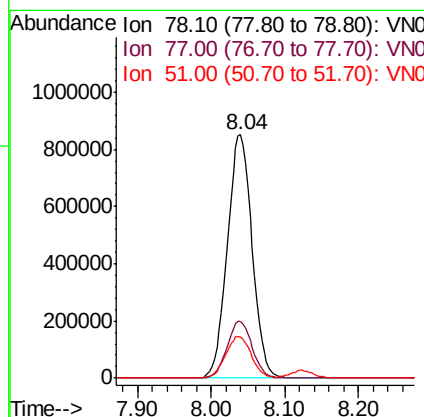
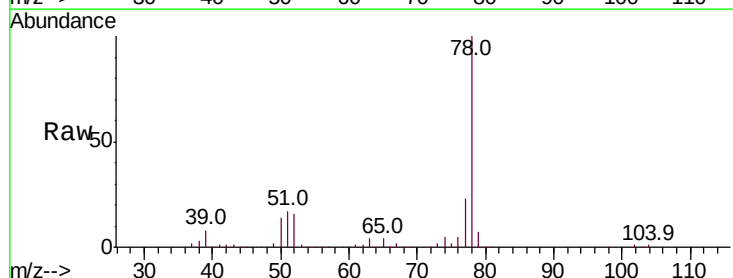
Manual Integrations
APPROVED

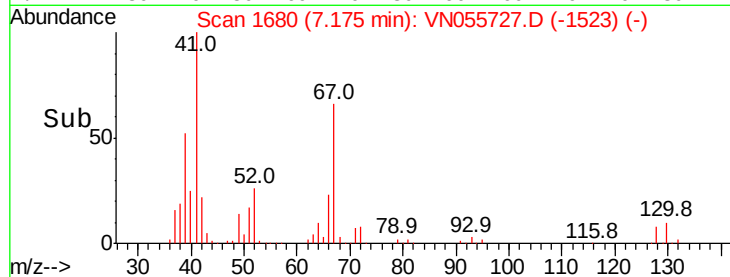
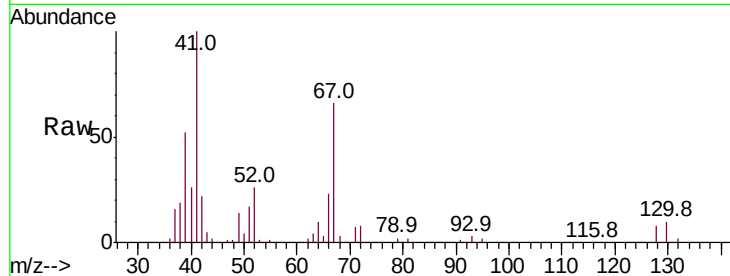
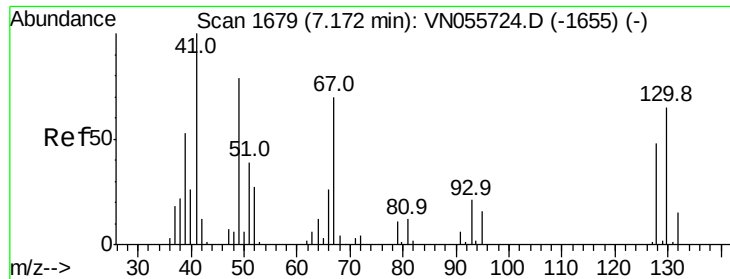
MMDadoda
5/23/2019 12:31:26 PM



#34
Benzene
Concen: 134.086 ug/l
RT: 8.04 min Scan# 1949
Delta R.T. 0.00 min
Lab File: VN055727.D
Acq: 22 May 2019 18:37

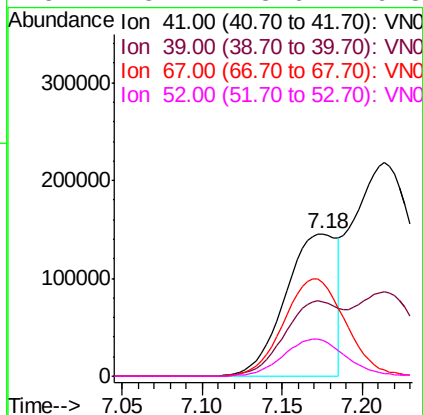
Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.4	18.8	28.2
51	17.0	20.6	31.0#





#35
Methacrylonitrile
Concen: 146.257 ug/l
RT: 7.18 min Scan# 1680
Delta R.T. 0.00 min
Lab File: VN055727.D
Acq: 22 May 2019 18:37

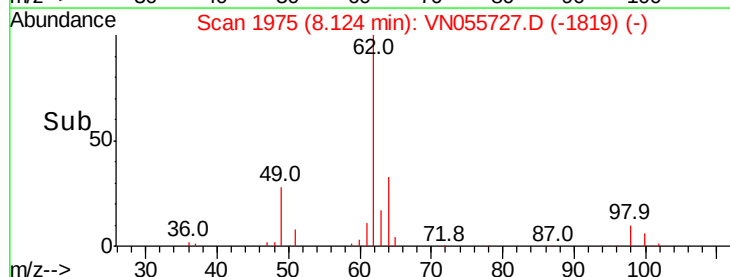
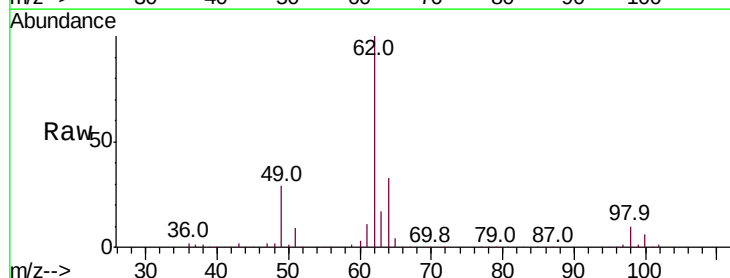
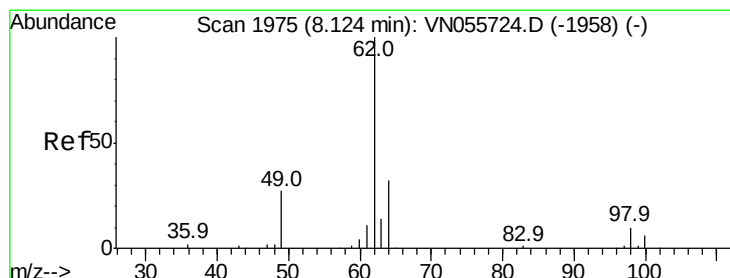
Tot Ion	Ratio	Lower	Upper
41	100		
39	52.3	26.7	80.1
67	65.9	34.9	104.7
52	25.4	13.6	40.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

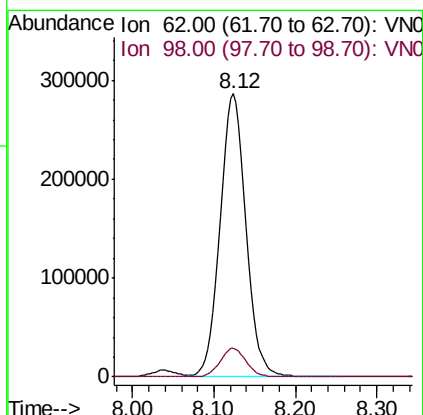
Manual Integrations
APPROVED

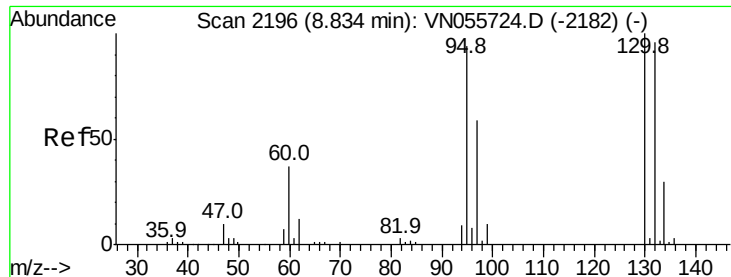
MMDadoda
5/23/2019 12:31:26 PM



#36
1,2-Dichloroethane
Concen: 124.165 ug/l
RT: 8.12 min Scan# 1975
Delta R.T. 0.00 min
Lab File: VN055727.D
Acq: 22 May 2019 18:37

Tgt Ion	Ratio	Lower	Upper
62	100		
98	10.1	8.2	12.2





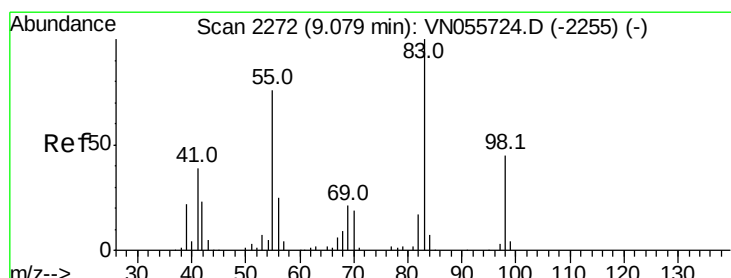
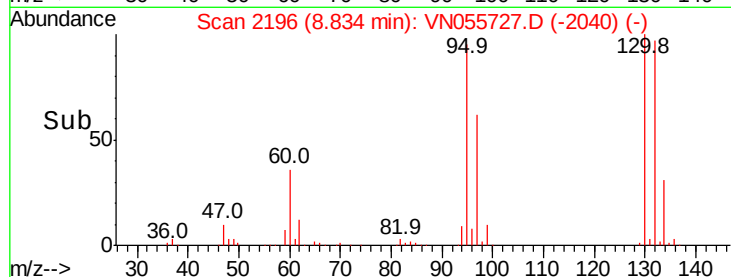
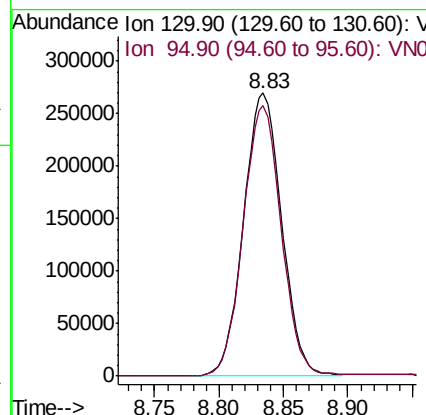
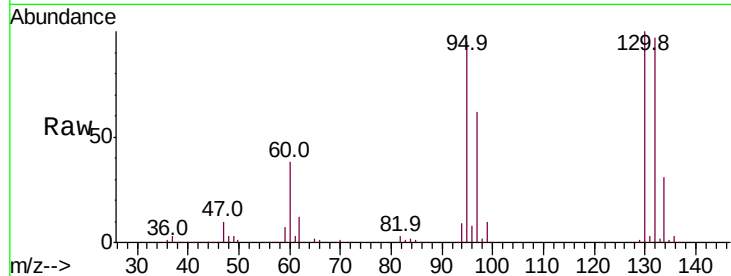
#37
 Trichloroethene
 Concen: 146.233 ug/l
 RT: 8.83 min Scan# 2196
 Delta R.T. 0.00 min
 Lab File: VN055727.D
 Acq: 22 May 2019 18:37

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC150

Tot Ion	Ratio	Lower	Upper
130	100		
95	95.5	75.6	113.4

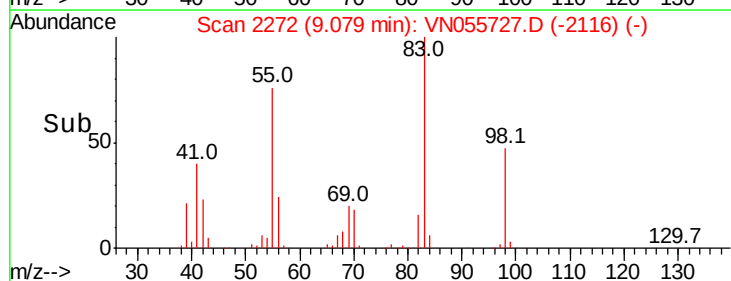
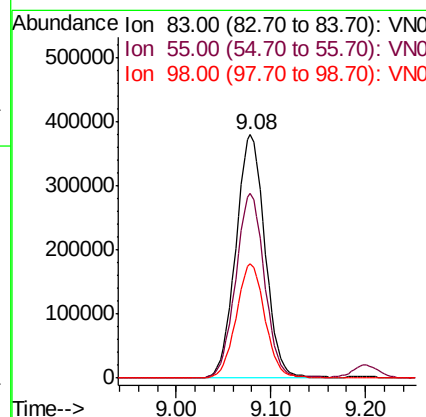
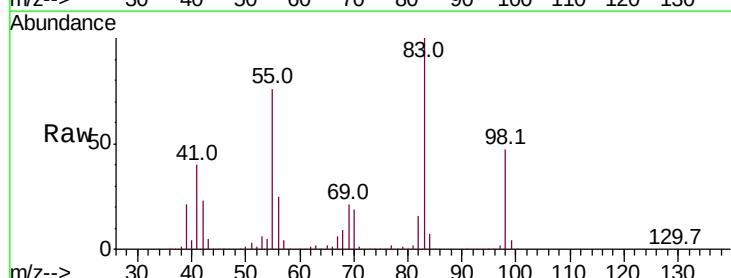
Manual Integrations
 APPROVED

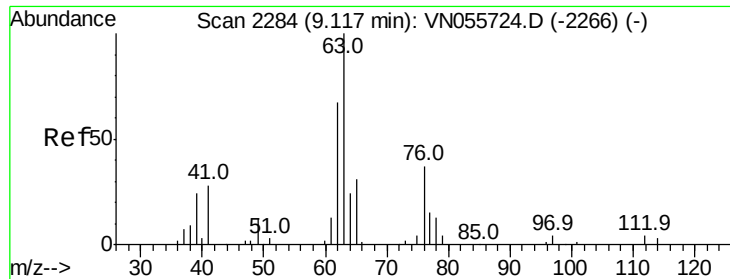
MMDadoda
 5/23/2019 12:31:26 PM



#38
 Methylcyclohexane
 Concen: 150.007 ug/l
 RT: 9.08 min Scan# 2272
 Delta R.T. 0.00 min
 Lab File: VN055727.D
 Acq: 22 May 2019 18:37

Tgt Ion	Ratio	Lower	Upper
83	100		
55	74.9	37.8	113.4
98	46.5	22.6	67.8





#39

1,2-Dichloropropane

Concen: 127.405 ug/l

RT: 9.12 min Scan# 2284

Delta R.T. 0.00 min

Lab File: VN055727.D

Acq: 22 May 2019 18:37

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion: 63 Resp: 531740

Ion Ratio Lower Upper

63 100

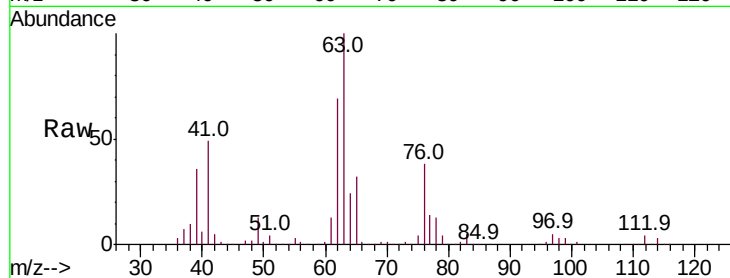
65 31.5 25.8 38.8

Manual Integrations

APPROVED

MMDadoda

5/23/2019 12:31:26 PM



Abundance Ion 63.00 (62.70 to 63.70): VN055727.D (-2128) (-)

Ion 65.00 (64.70 to 65.70): VN055727.D (-2128) (-)

9.12

250000

200000

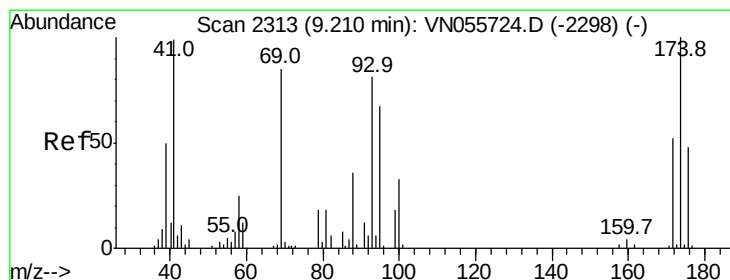
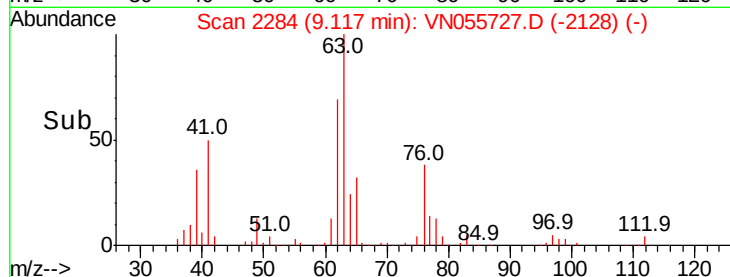
150000

100000

50000

0

Time-->



#40

Dibromomethane

Concen: 140.136 ug/l

RT: 9.21 min Scan# 2312

Delta R.T. -0.00 min

Lab File: VN055727.D

Acq: 22 May 2019 18:37

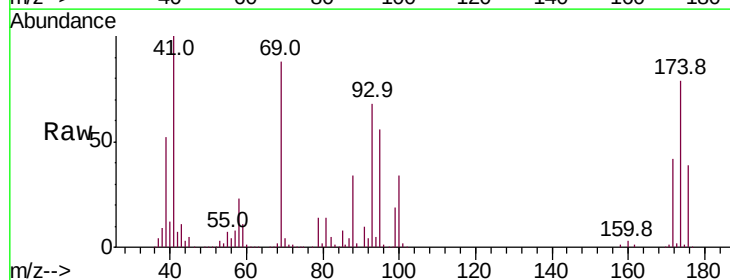
Tgt Ion: 93 Resp: 343828

Ion Ratio Lower Upper

93 100

95 82.9 0.0 170.6

174 119.2 0.0 248.4



Abundance Ion 93.00 (92.70 to 93.70): VN055727.D (-2157) (-)

Ion 95.00 (94.70 to 95.70): VN055727.D (-2157) (-)

Ion 174.00 (173.70 to 174.70): VN055727.D (-2157) (-)

9.21

250000

200000

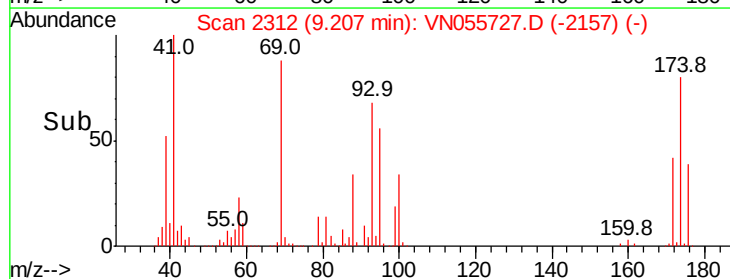
150000

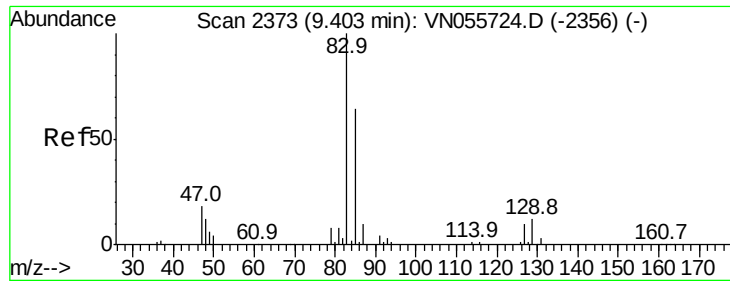
100000

50000

0

Time-->





#41

Bromodichloromethane

Concen: 137.428 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. 0.00 min

Lab File: VN055727.D

Acq: 22 May 2019 18:37

Instrument :

MSVOA_N

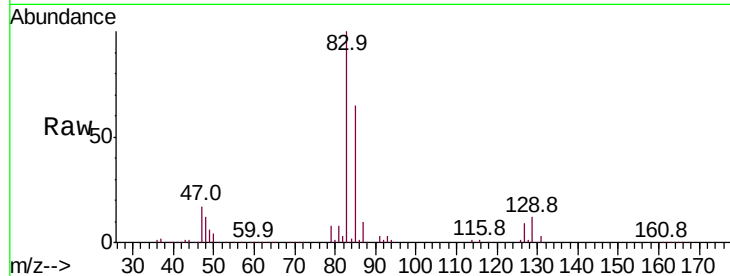
ClientSampleId :

VSTDIC150

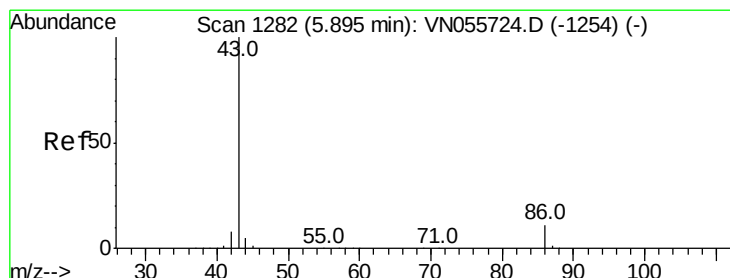
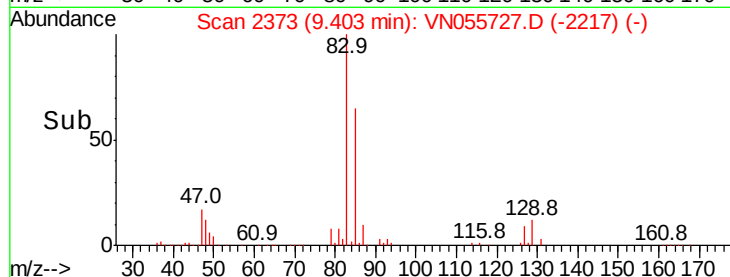
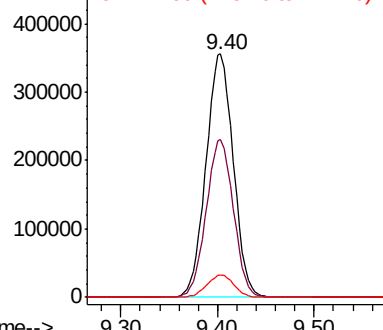
Tot Ion:	83	Resp:	695556
Ion	Ratio	Lower	Upper
83	100		
85	64.8	51.4	77.0
127	9.3	7.7	11.5

Manual Integrations
APPROVED

MMDadoda
5/23/2019 12:31:26 PM



Abundance Ion 83.00 (82.70 to 83.70): VN055727.D (-2356) (-)



#42

Vinyl Acetate

Concen: 688.959 ug/l

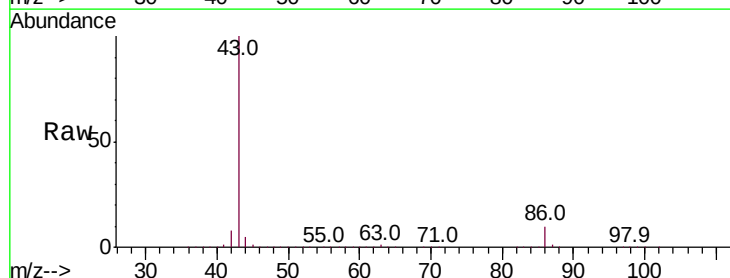
RT: 5.89 min Scan# 1281

Delta R.T. -0.00 min

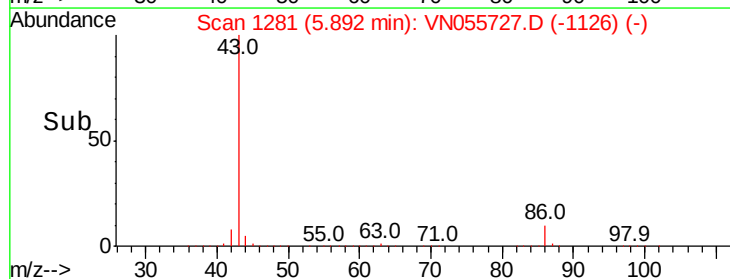
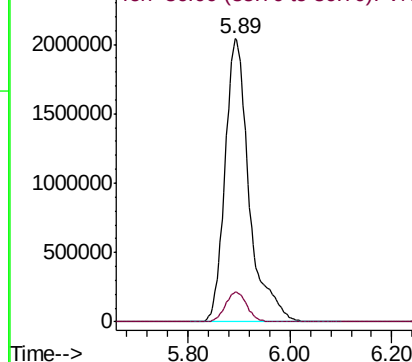
Lab File: VN055727.D

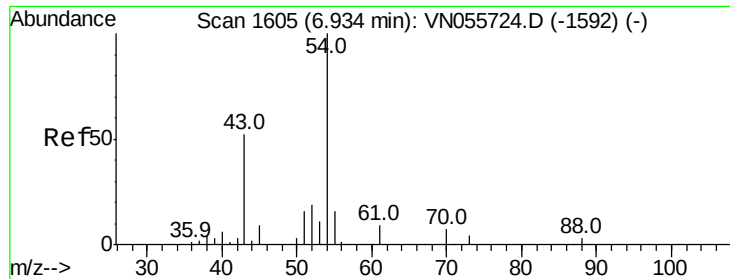
Acq: 22 May 2019 18:37

Tgt Ion:	43	Resp:	6688735
Ion	Ratio	Lower	Upper
43	100		
86	9.5	7.4	11.2



Abundance Ion 43.00 (42.70 to 43.70): VN055727.D (-1126) (-)





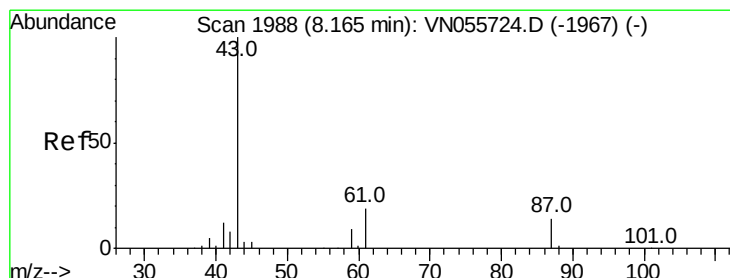
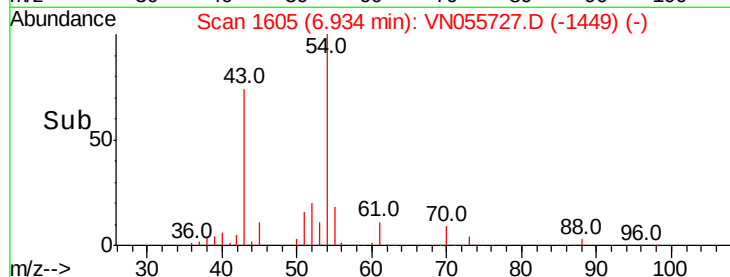
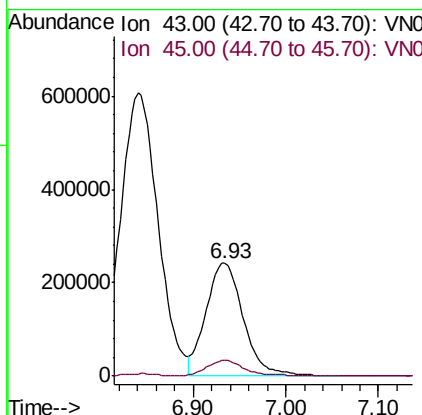
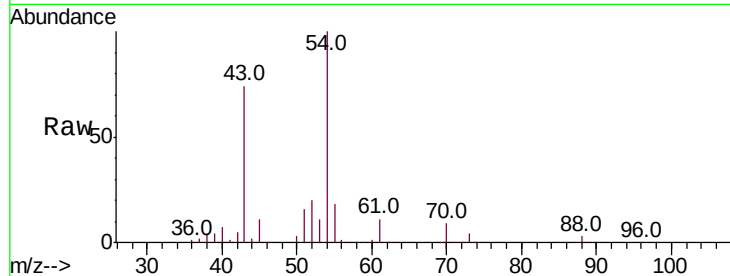
#43
Ethyl Acetate
Concen: 154.687 ug/l
RT: 6.93 min Scan# 1605
Delta R.T. 0.00 min
Lab File: VN055727.D
Acq: 22 May 2019 18:37

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tot Ion: 43 Resp: 670177
Ion Ratio Lower Upper
43 100
45 15.1 0.0 0.0#

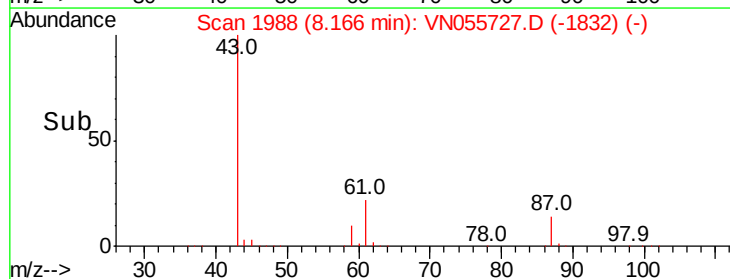
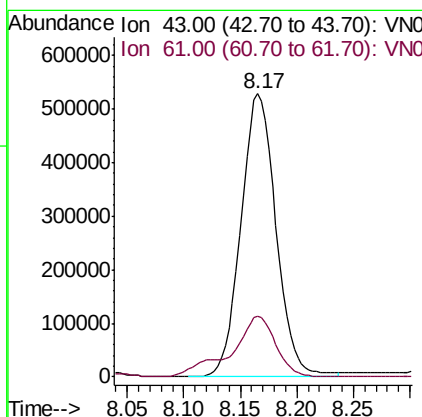
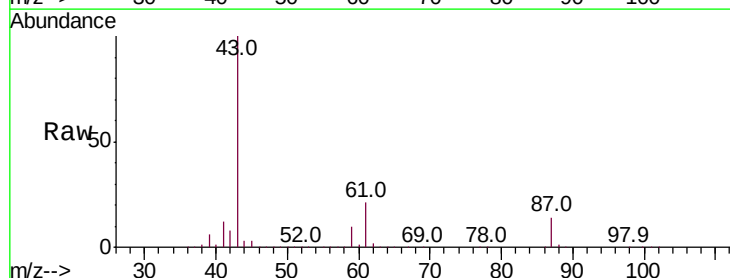
Manual Integrations
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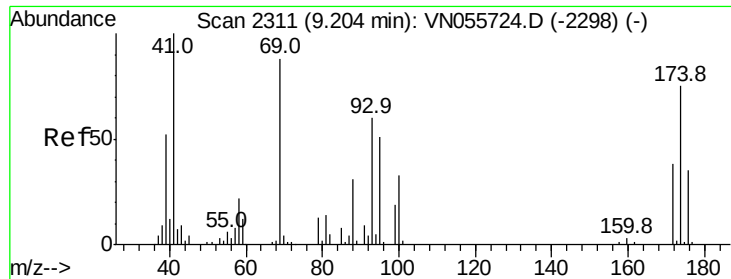
MMDadoda
5/23/2019 12:31:26 PM



#44
Isopropyl Acetate
Concen: 147.763 ug/l
RT: 8.17 min Scan# 1988
Delta R.T. 0.00 min
Lab File: VN055727.D
Acq: 22 May 2019 18:37

Tgt Ion: 43 Resp: 1139783
Ion Ratio Lower Upper
43 100
61 21.4 22.1 33.1#





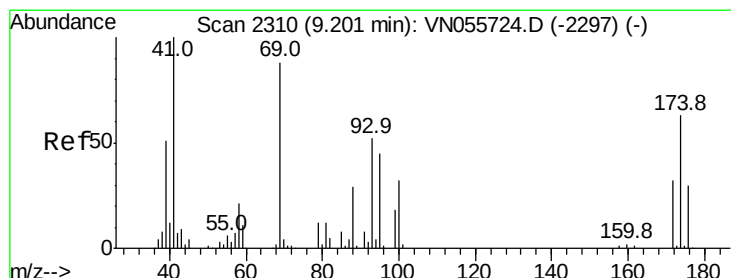
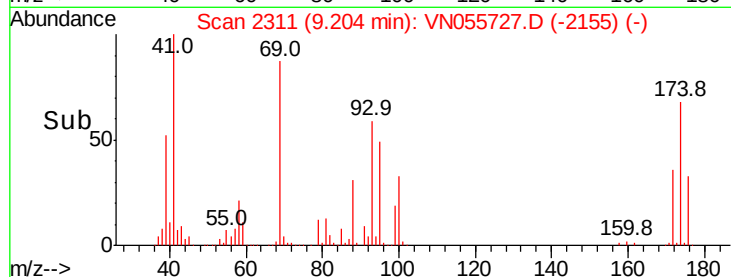
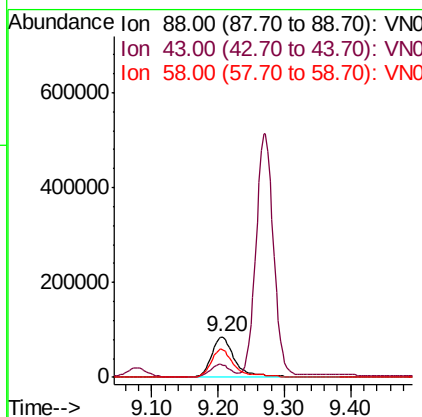
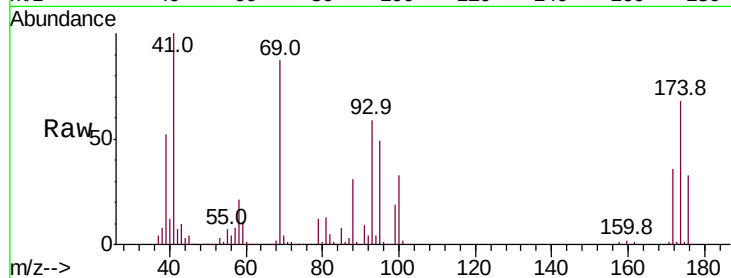
#45
 1,4-Dioxane
 Concen: 4590.760 ug/l
 RT: 9.20 min Scan# 2311
 Delta R.T. 0.00 min
 Lab File: VN055727.D
 Acq: 22 May 2019 18:37

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC150

Tot Ion	Ratio	Lower	Upper
88	100		
43	26.1	20.5	30.7
58	70.0	56.1	84.1

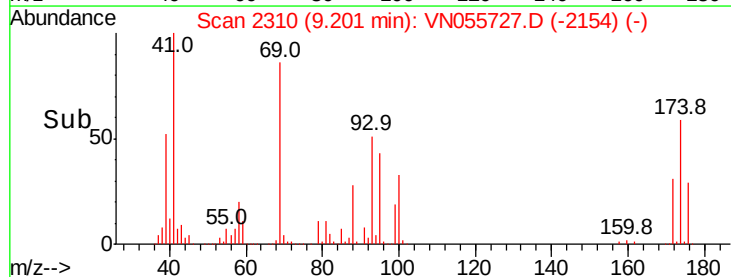
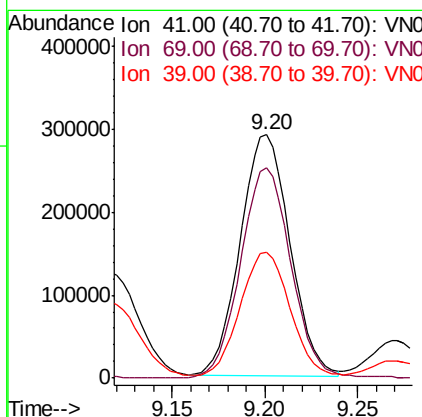
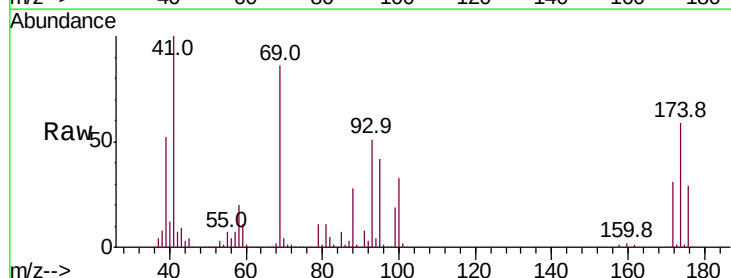
Manual Integrations
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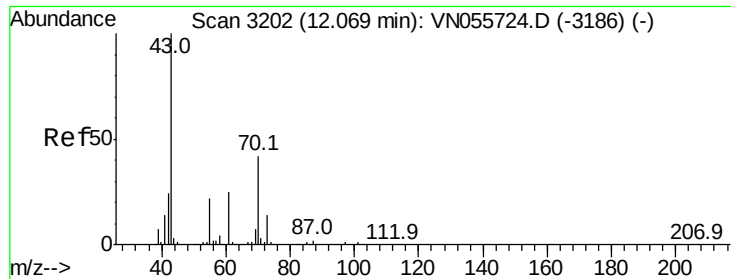
MMDadoda
 5/23/2019 12:31:26 PM



#46
 Methyl methacrylate
 Concen: 148.991 ug/l
 RT: 9.20 min Scan# 2310
 Delta R.T. 0.00 min
 Lab File: VN055727.D
 Acq: 22 May 2019 18:37

Tgt Ion	Ratio	Lower	Upper
41	100		
69	87.1	43.8	131.4
39	51.3	25.6	76.6





#47

n-amvl Acetate

Concen: 165.873 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. 0.00 min

Lab File: VN055727.D

Acq: 22 May 2019 18:37

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion: 43 Resp: 957719

Ion Ratio Lower Upper

43 100

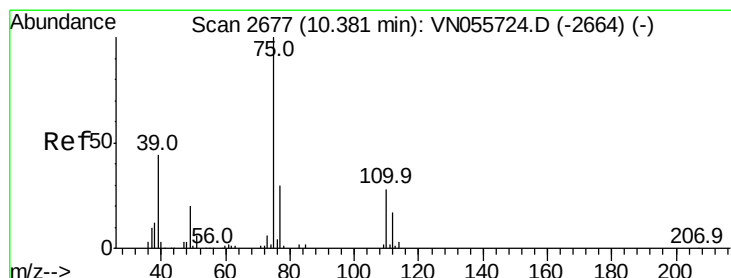
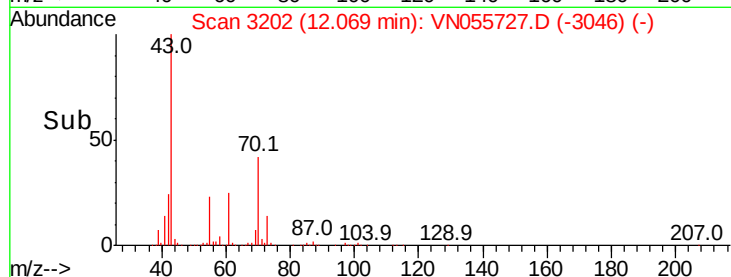
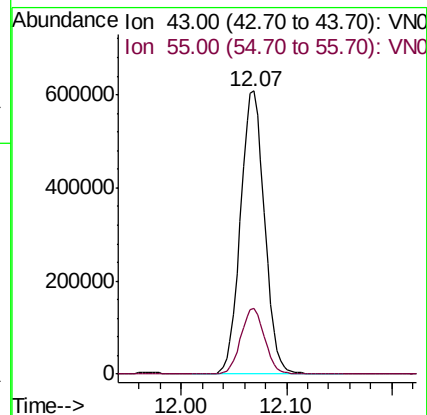
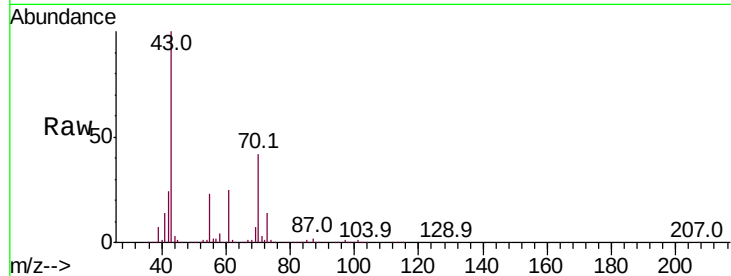
55 23.0 17.8 26.6

Manual Integrations

APPROVED

MMDadoda

5/23/2019 12:31:26 PM



#48

t-1,3-Dichloropropene

Concen: 158.857 ug/l

RT: 10.38 min Scan# 2677

Delta R.T. 0.00 min

Lab File: VN055727.D

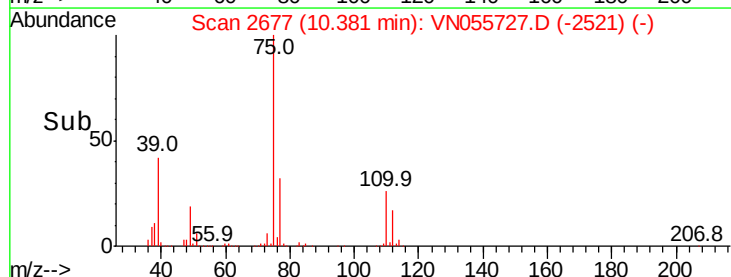
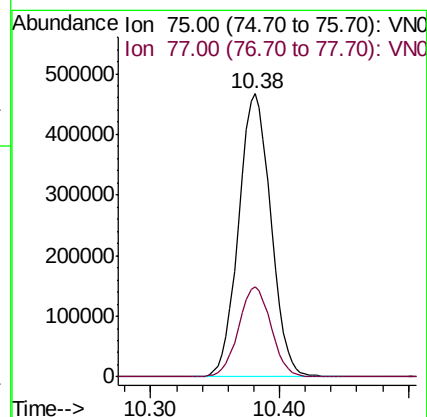
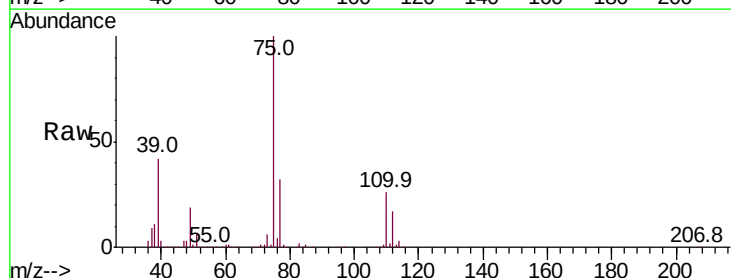
Acq: 22 May 2019 18:37

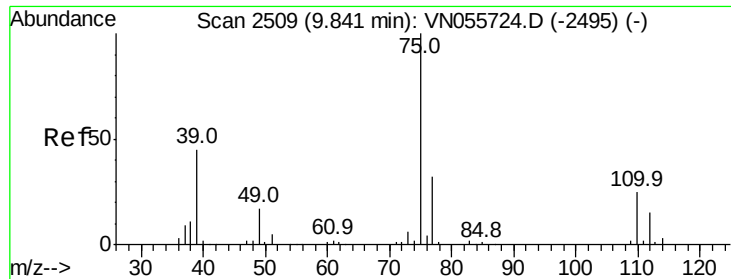
Tgt Ion: 75 Resp: 812294

Ion Ratio Lower Upper

75 100

77 31.7 25.2 37.8





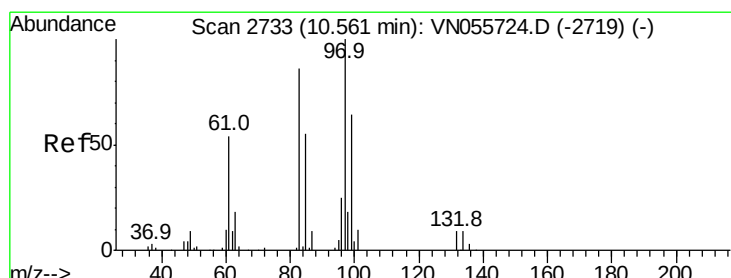
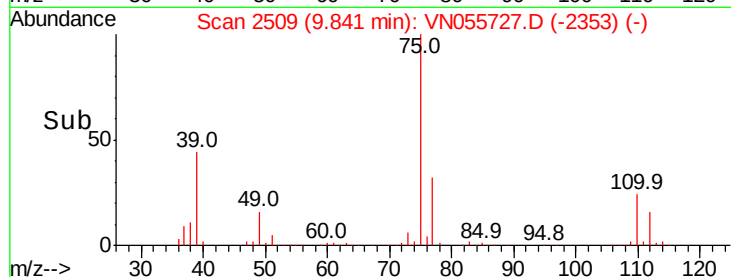
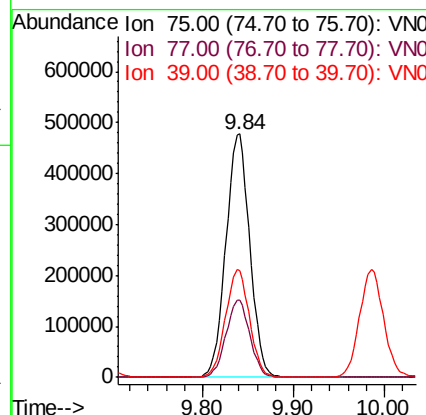
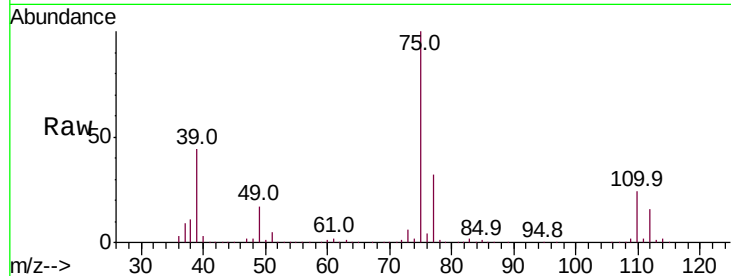
#49
 cis-1,3-Dichloropropene
 Concen: 148.777 ug/l
 RT: 9.84 min Scan# 2509
 Delta R.T. 0.00 min
 Lab File: VN055727.D
 Acq: 22 May 2019 18:37

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC150

Tot Ion	Ratio	Lower	Upper
75	100		
77	31.7	26.0	39.0
39	43.8	36.2	54.4

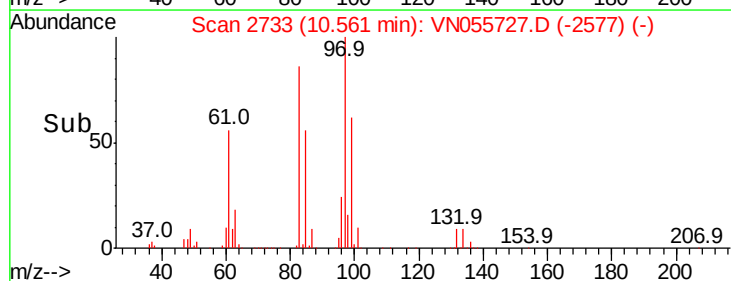
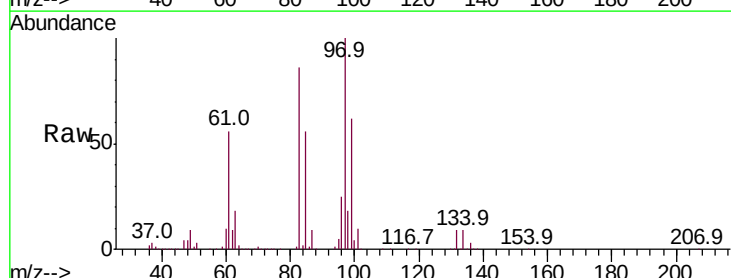
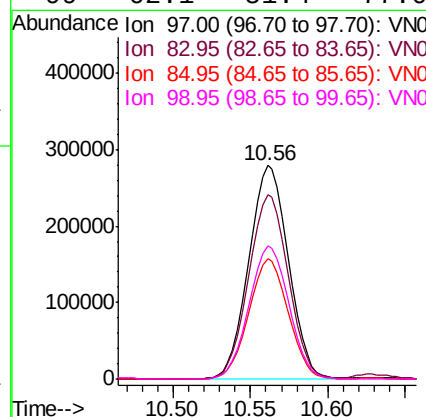
Manual Integrations
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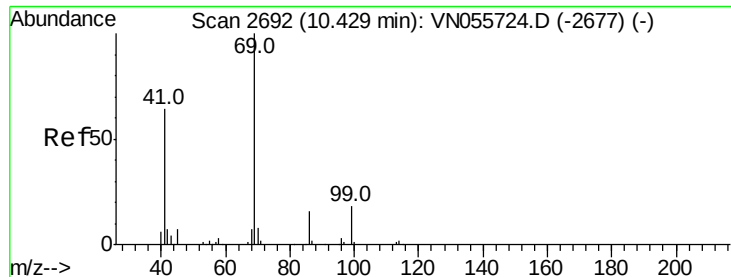
MMDadoda
 5/23/2019 12:31:26 PM



#50
 1,1,2-Trichloroethane
 Concen: 146.541 ug/l
 RT: 10.56 min Scan# 2733
 Delta R.T. 0.00 min
 Lab File: VN055727.D
 Acq: 22 May 2019 18:37

Tgt Ion	Ratio	Lower	Upper
97	100		
83	86.3	68.9	103.3
85	56.3	44.3	66.5
99	62.1	51.4	77.0





#51

Ethyl methacrylate

Concen: 170.105 ug/l

RT: 10.43 min Scan# 2692

Delta R.T. 0.00 min

Lab File: VN055727.D

Acq: 22 May 2019 18:37

Instrument :

MSVOA_N

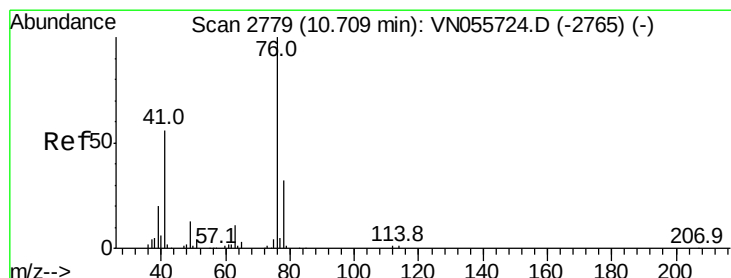
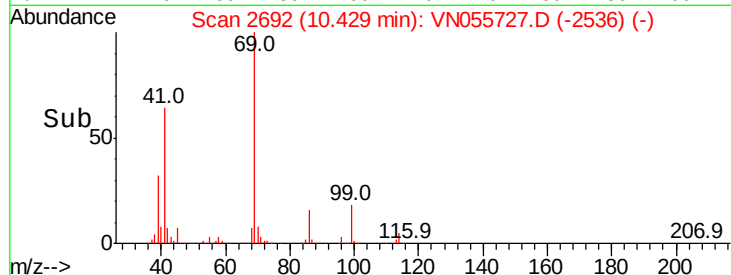
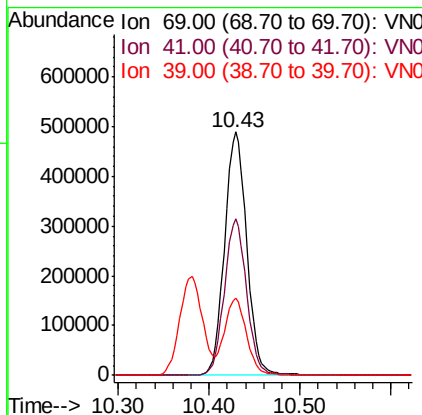
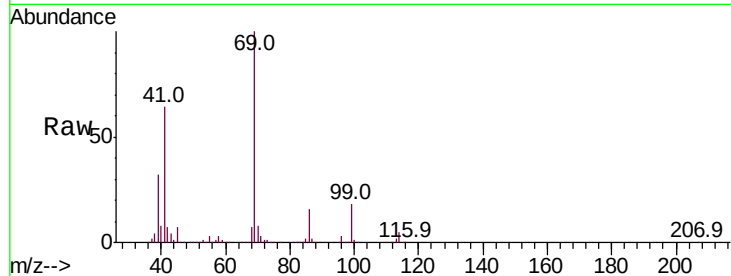
ClientSampleId :

VSTDIC150

Tot Ion:	69	Resp:	829136
Ion	Ratio	Lower	Upper
69	100		
41	63.9	31.9	95.7
39	31.5	15.7	47.0

Manual Integrations
APPROVED

MMDadoda
5/23/2019 12:31:26 PM



#52

1,3-Dichloropropane

Concen: 139.636 ug/l

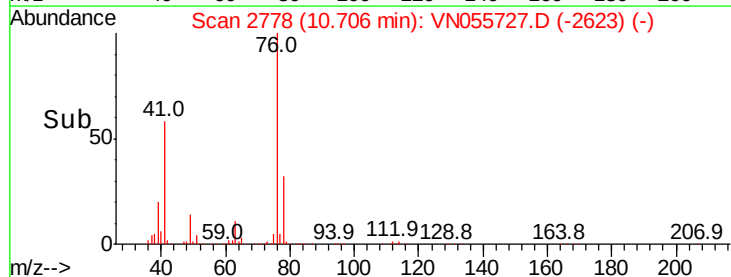
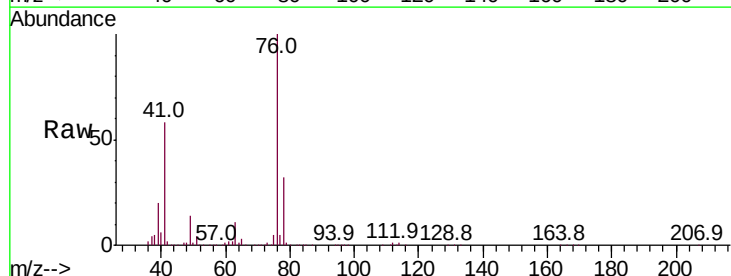
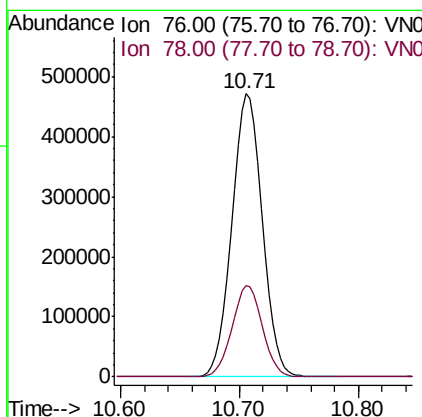
RT: 10.71 min Scan# 2778

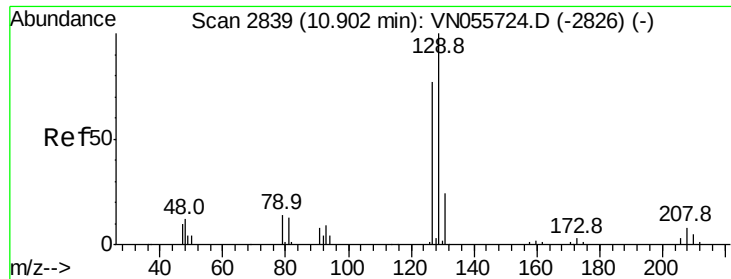
Delta R.T. -0.00 min

Lab File: VN055727.D

Acq: 22 May 2019 18:37

Tgt Ion:	76	Resp:	834778
Ion	Ratio	Lower	Upper
76	100		
78	32.2	0.0	65.0





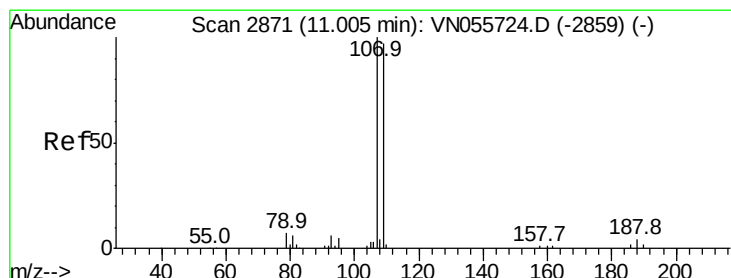
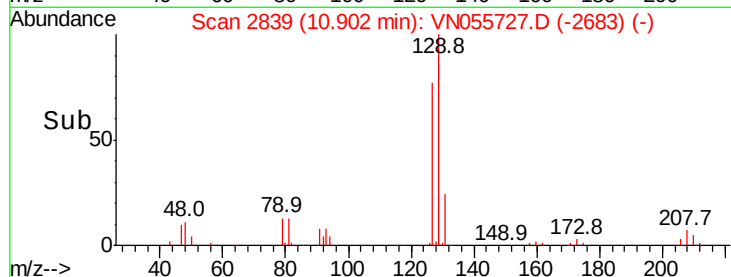
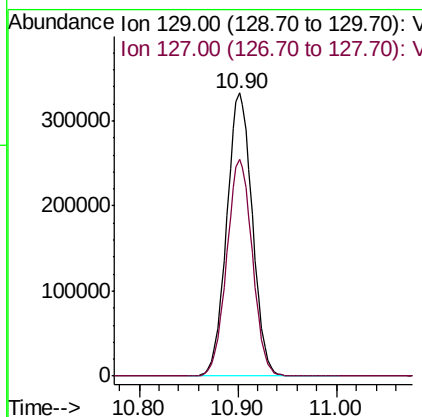
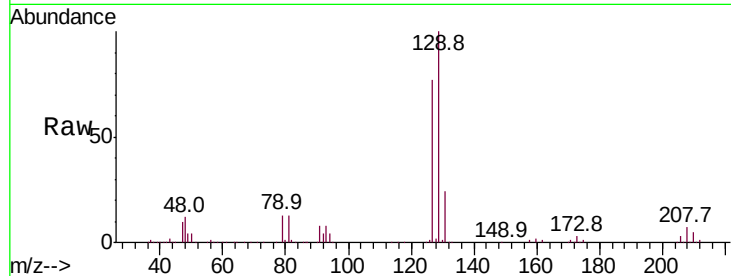
#53
 Dibromochloromethane
 Concen: 165.927 ug/l
 RT: 10.90 min Scan# 2839
 Delta R.T. 0.00 min
 Lab File: VN055727.D
 Acq: 22 May 2019 18:37

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC150

Tot Ion	Ratio	Lower	Upper
129	100		
127	76.7	39.2	117.6

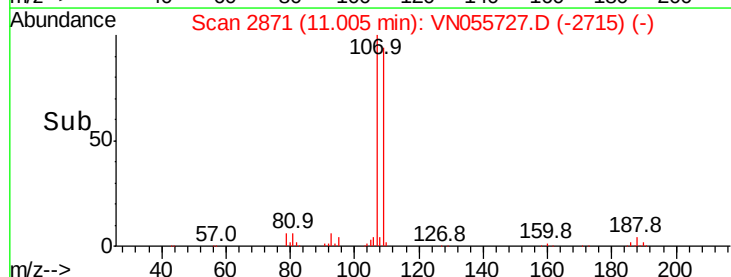
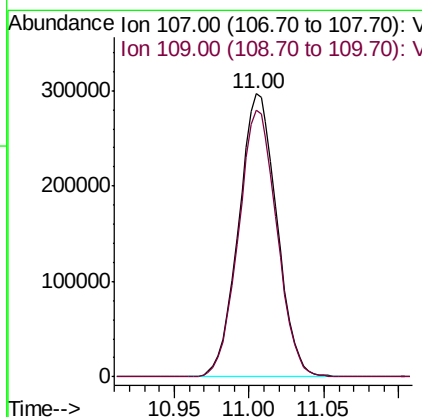
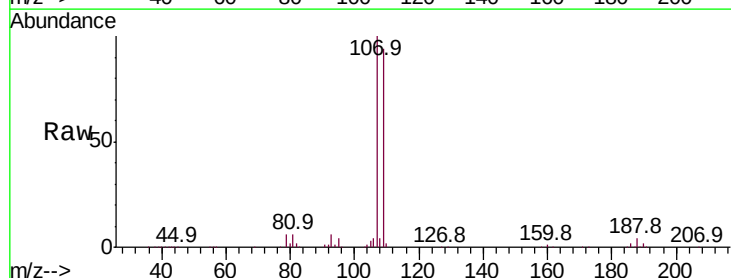
Manual Integrations
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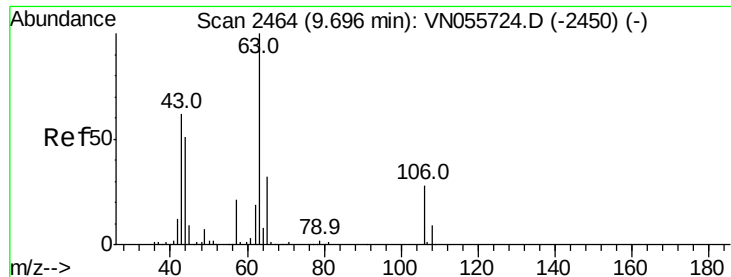
MMDadoda
 5/23/2019 12:31:26 PM



#54
 1,2-Dibromoethane
 Concen: 156.256 ug/l
 RT: 11.00 min Scan# 2871
 Delta R.T. 0.00 min
 Lab File: VN055727.D
 Acq: 22 May 2019 18:37

Tgt Ion	Ratio	Lower	Upper
107	100		
109	94.8	76.6	115.0





#55

2-Chloroethyl vinyl ether

Concen: 1092.679 ug/l

RT: 9.70 min Scan# 2464

Delta R.T. 0.00 min

Lab File: VN055727.D

Acq: 22 May 2019 18:37

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion: 63 Resp: 1708315

Ion Ratio Lower Upper

63 100

65 32.0 25.4 38.0

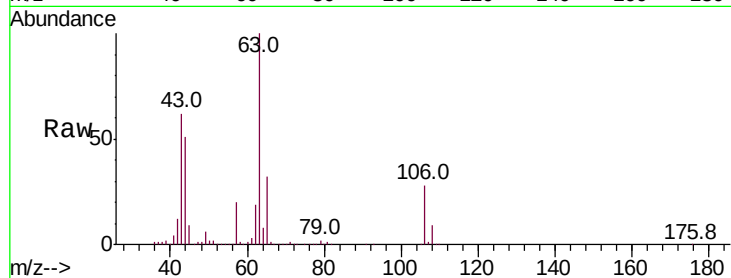
106 27.4 22.1 33.1

Manual Integrations

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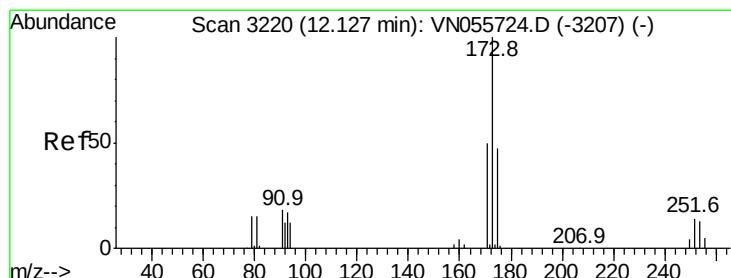
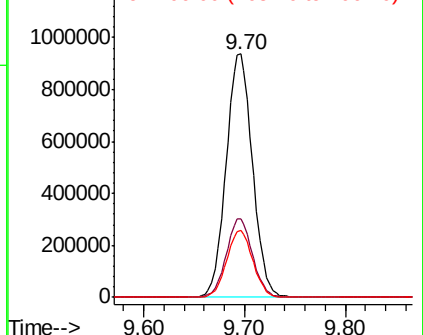
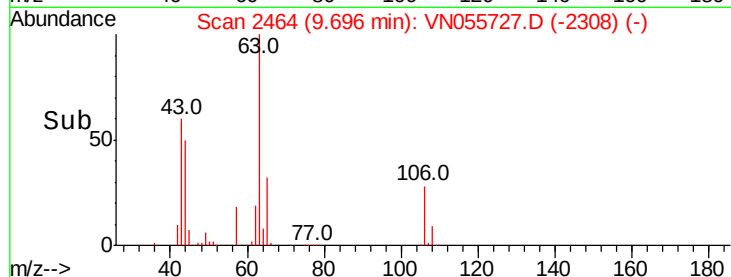
5/23/2019 12:31:26 PM



Abundance Ion 63.00 (62.70 to 63.70): VN055727.D (-2450) (-)

Ion 65.00 (64.70 to 65.70): VN055727.D (-2450) (-)

Ion 106.00 (105.70 to 106.70): VN055727.D (-2450) (-)



#56

Bromoform

Concen: 196.566 ug/l

RT: 12.13 min Scan# 3220

Delta R.T. 0.00 min

Lab File: VN055727.D

Acq: 22 May 2019 18:37

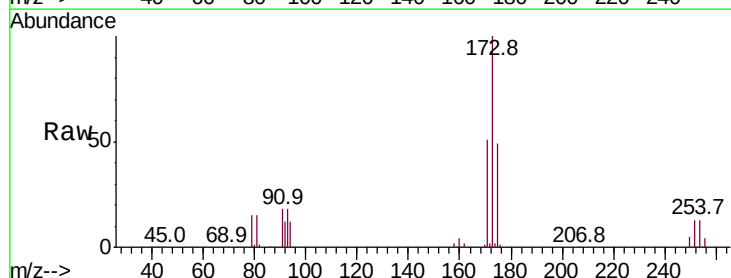
Tgt Ion: 173 Resp: 497176

Ion Ratio Lower Upper

173 100

175 48.8 38.5 57.7

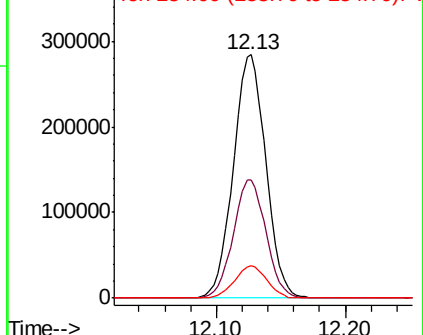
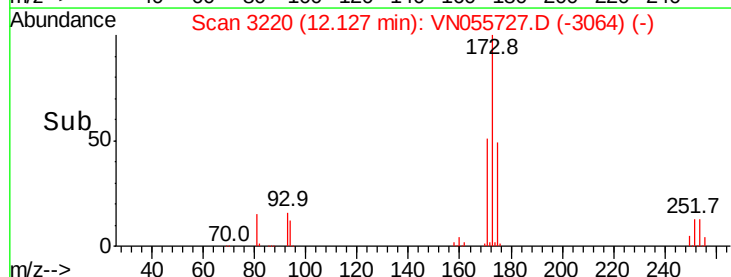
254 13.0 9.4 14.0

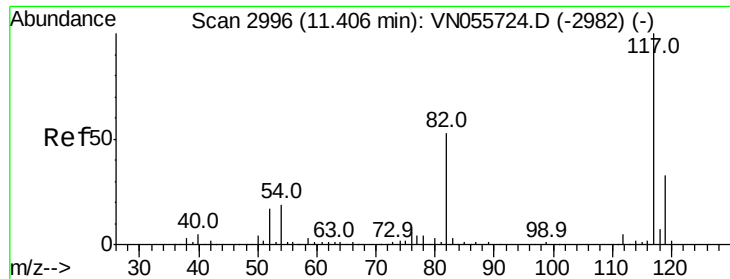


Abundance Ion 173.00 (172.70 to 173.70): VN055727.D (-3207) (-)

Ion 175.00 (174.70 to 175.70): VN055727.D (-3207) (-)

Ion 254.00 (253.70 to 254.70): VN055727.D (-3207) (-)





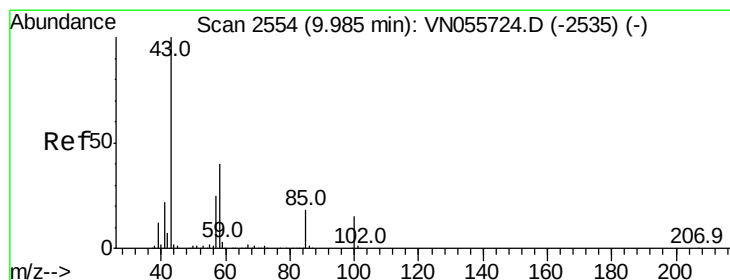
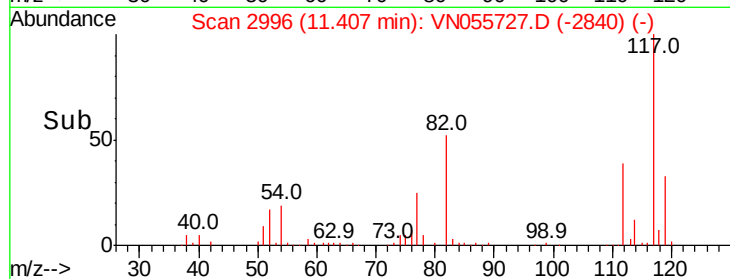
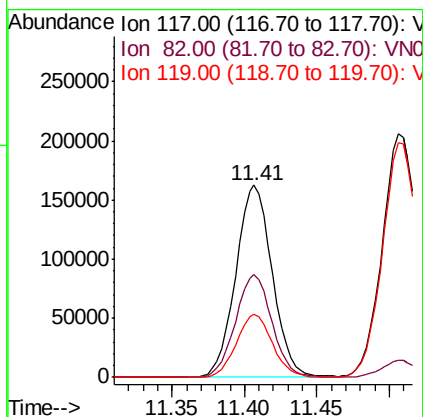
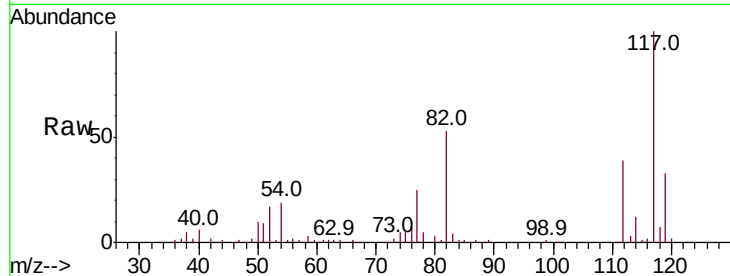
#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN055727.D
Acq: 22 May 2019 18:37

Instrument :
MSVOA_N
ClientSampled :
VSTDIC150

Tot Ion	Ratio	Lower	Upper
117	100		
82	53.5	42.6	64.0
119	32.4	25.9	38.9

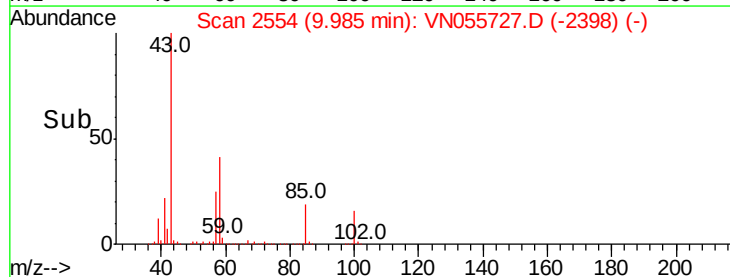
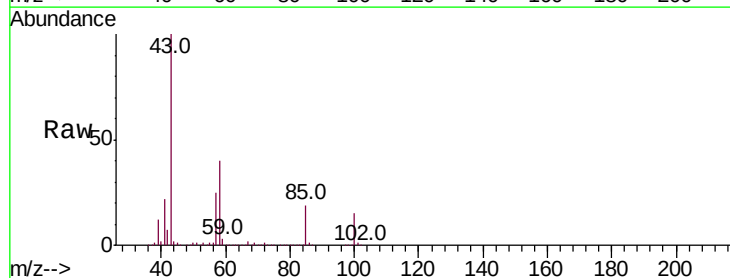
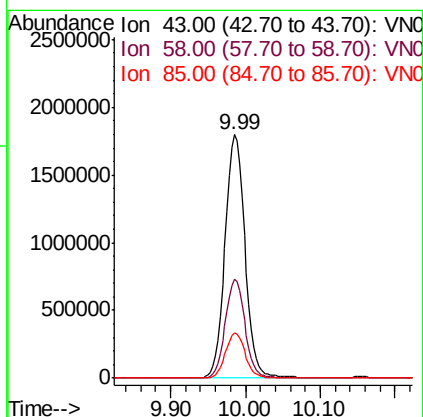
Manual Integrations
APPROVED

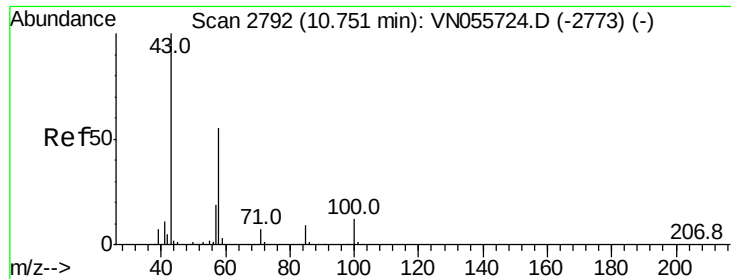
MMDadoda
5/23/2019 12:31:26 PM



#58
4-Methyl-2-Pentanone
Concen: 736.719 ug/l
RT: 9.99 min Scan# 2554
Delta R.T. 0.00 min
Lab File: VN055727.D
Acq: 22 May 2019 18:37

Tgt Ion	Ratio	Lower	Upper
43	100		
58	40.2	31.7	47.5
85	18.5	14.5	21.7





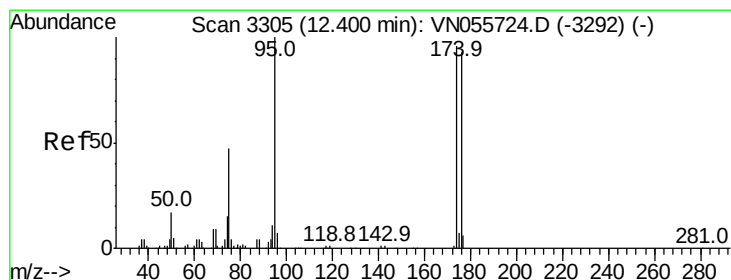
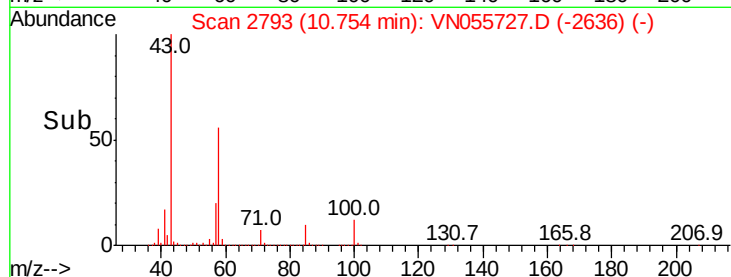
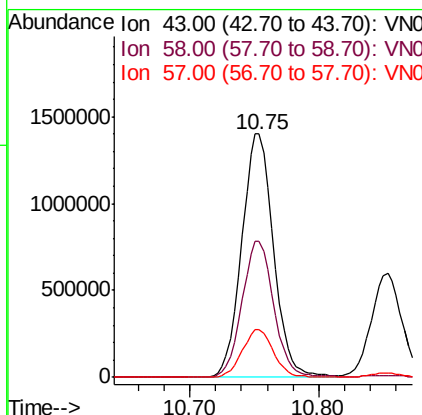
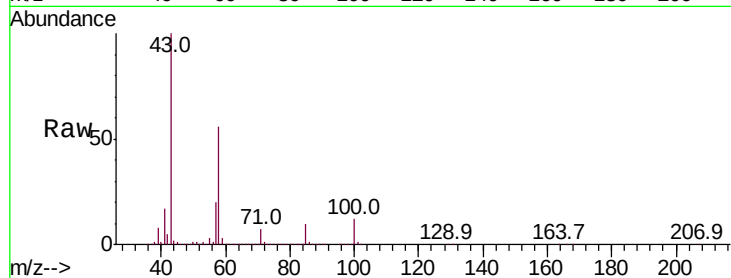
#59
2-Hexanone
Concen: 815.163 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.00 min
Lab File: VN055727.D
Acq: 22 May 2019 18:37

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tot Ion: 43 Resp: 2405367
Ion Ratio Lower Upper
43 100
58 56.0 44.8 67.2
57 19.5 15.3 22.9

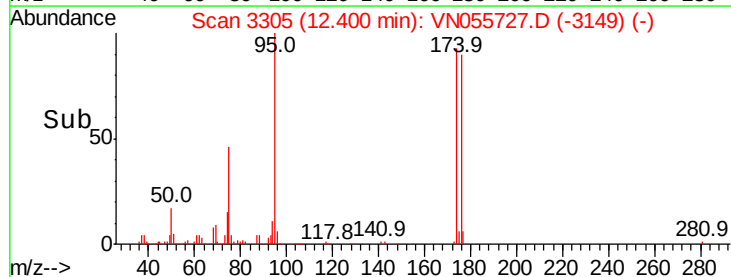
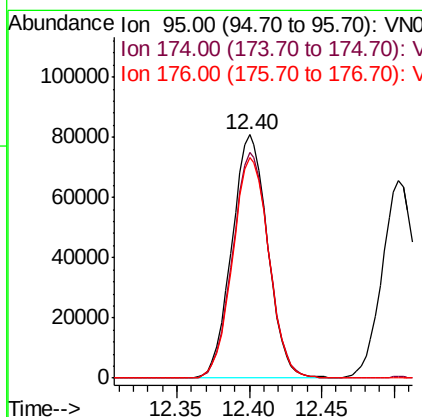
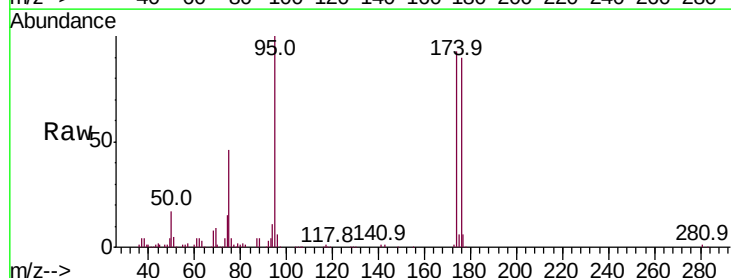
Manual Integrations
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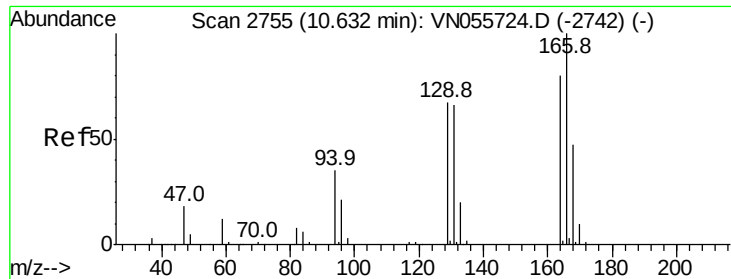
MMDadoda
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#60
4-Bromofluorobenzene
Concen: 31.679 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN055727.D
Acq: 22 May 2019 18:37

Tgt Ion: 95 Resp: 138920
Ion Ratio Lower Upper
95 100
174 93.5 75.7 113.5
176 91.8 74.1 111.1





#61

Tetrachloroethene

Concen: 146.952 ug/l

RT: 10.63 min Scan# 2755

Delta R.T. 0.00 min

Lab File: VN055727.D

Acq: 22 May 2019 18:37

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion:164 Resp: 544226

Ion Ratio Lower Upper

164 100

166 128.7 100.6 150.8

129 87.3 67.4 101.2

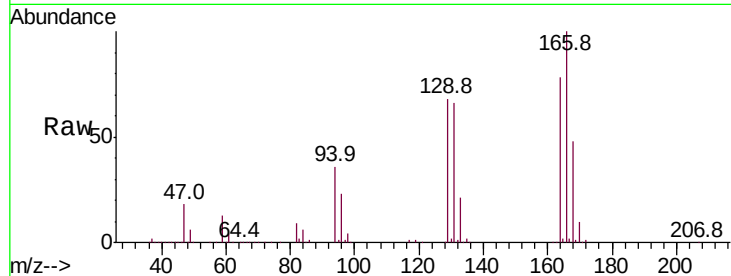
131 84.3 66.6 99.8

Manual Integrations

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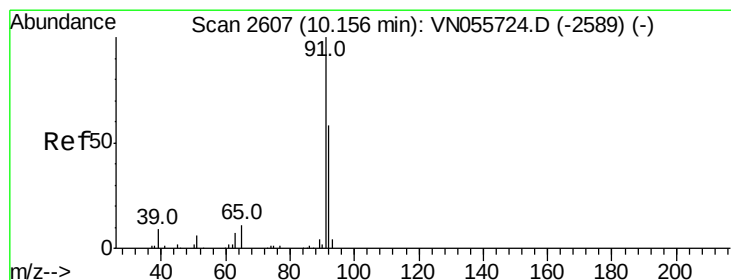
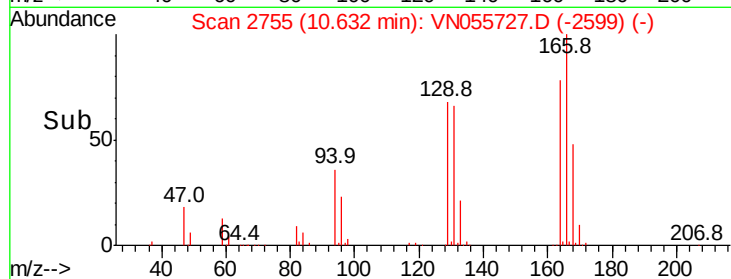
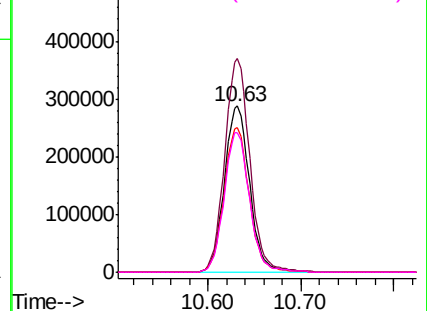


Abundance Ion 163.85 (163.55 to 164.55): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.90 (128.60 to 129.60): V

Ion 130.90 (130.60 to 131.60): V



#62

Toluene

Concen: 136.942 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN055727.D

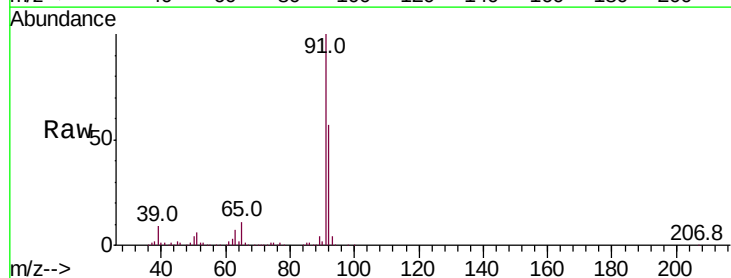
Acq: 22 May 2019 18:37

Tgt Ion: 91 Resp: 2183046

Ion Ratio Lower Upper

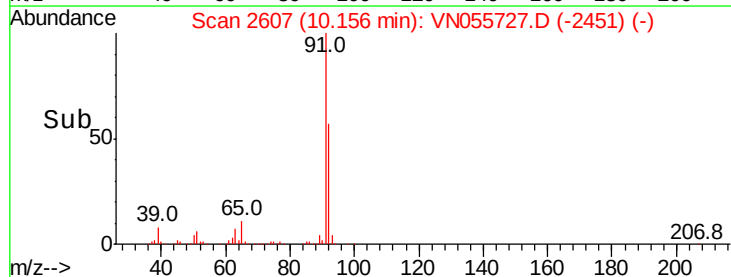
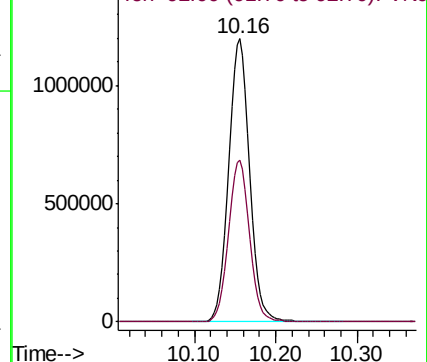
91 100

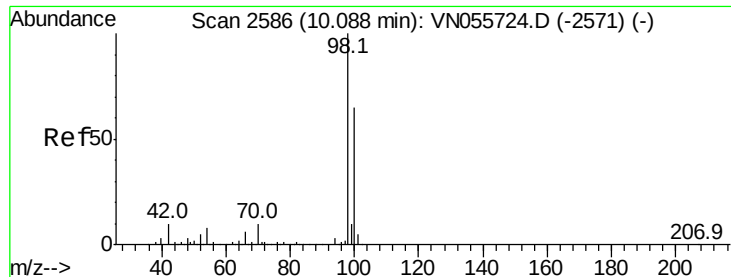
92 57.5 45.6 68.4



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 92.00 (91.70 to 92.70): V





#63

Toluene-d8

Concen: 28.257 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN055727.D

Acq: 22 May 2019 18:37

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion: 98 Resp: 378689

Ion Ratio Lower Upper

98 100

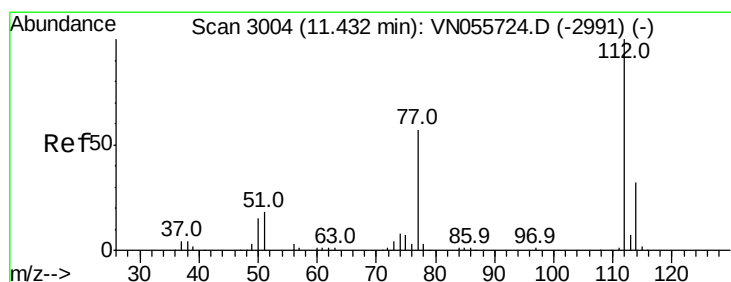
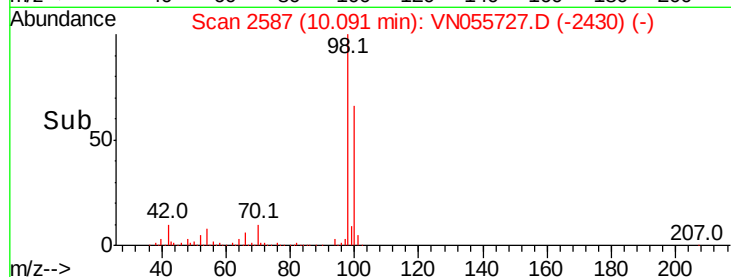
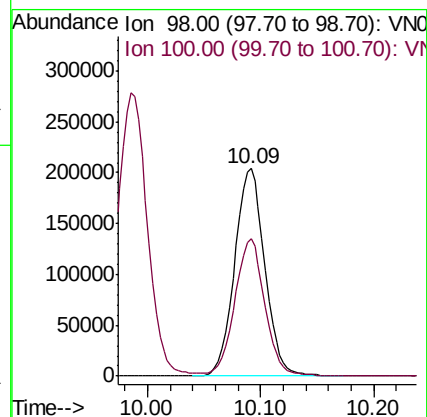
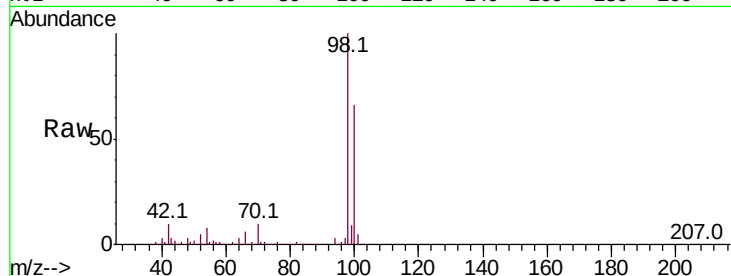
100 66.0 51.6 77.4

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#64

Chlorobenzene

Concen: 142.509 ug/l

RT: 11.43 min Scan# 3004

Delta R.T. 0.00 min

Lab File: VN055727.D

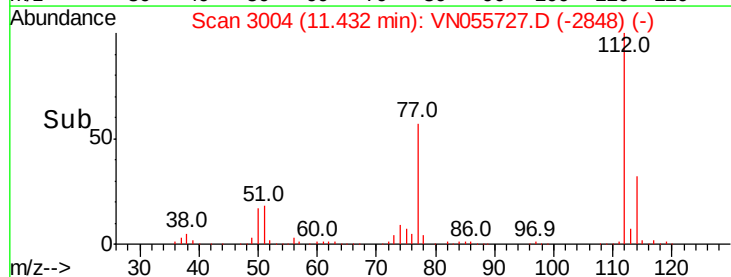
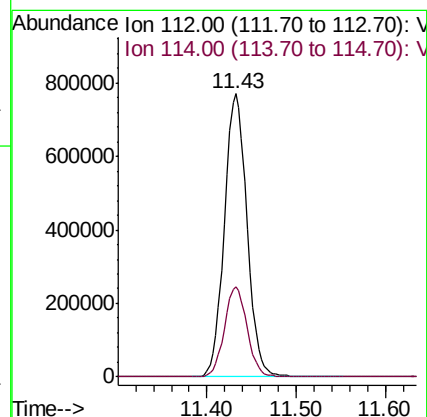
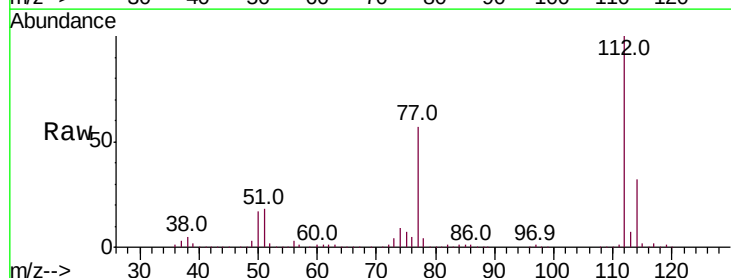
Acq: 22 May 2019 18:37

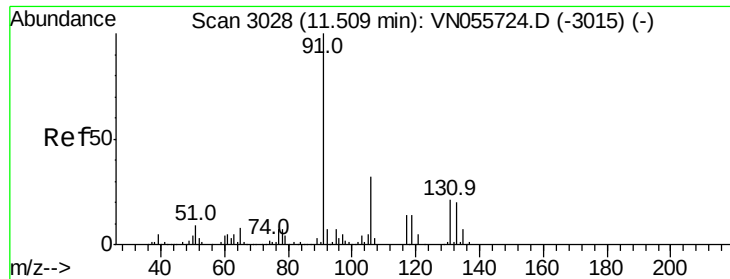
Tgt Ion: 112 Resp: 1352700

Ion Ratio Lower Upper

112 100

114 32.0 25.4 38.0





#65

1,1,1,2-Tetrachloroethane

Concen: 146.148 ug/l

RT: 11.51 min Scan# 3027

Delta R.T. -0.00 min

Lab File: VN055727.D

Acq: 22 May 2019 18:37

Instrument :

MSVOA_N

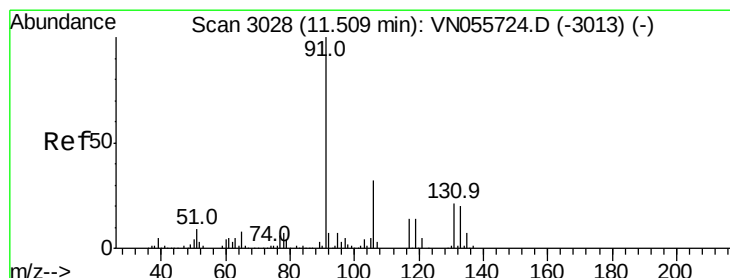
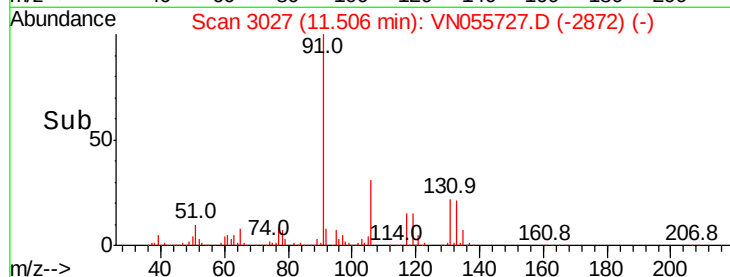
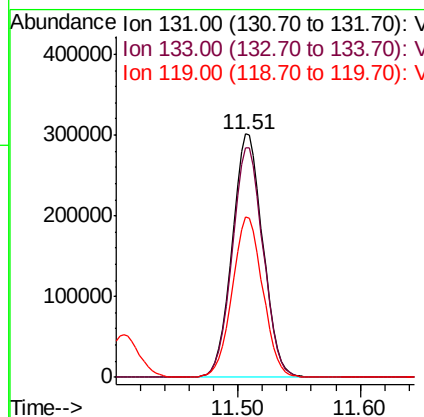
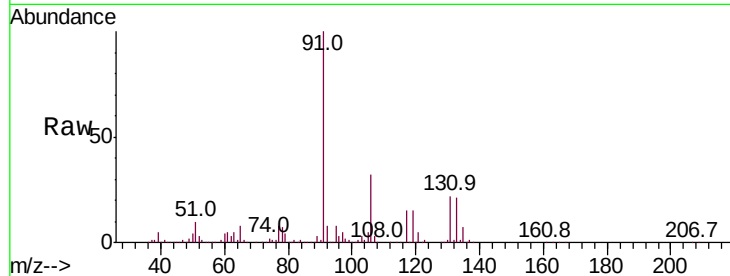
ClientSampleId :

VSTDIC150

Tot Ion:	131	Resp:	527480
Ion Ratio	Lower	Upper	
131	100		
133	95.2	0.0	188.8
119	65.6	0.0	133.6

Manual Integrations
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#66

Ethyl Benzene

Concen: 140.408 ug/l

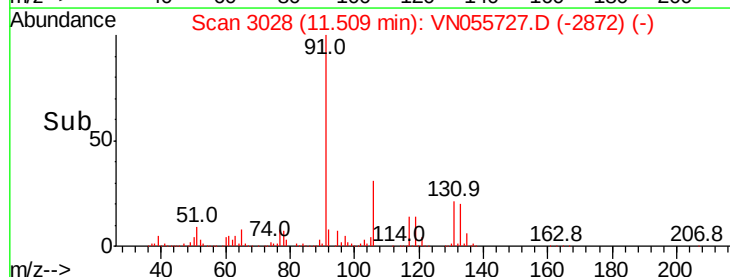
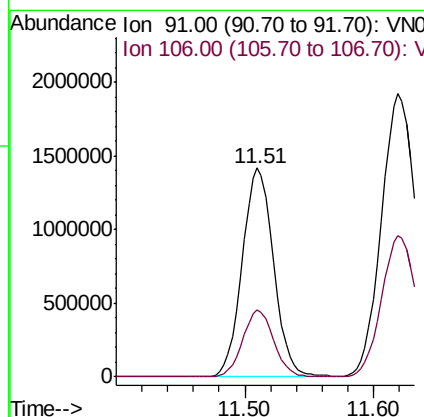
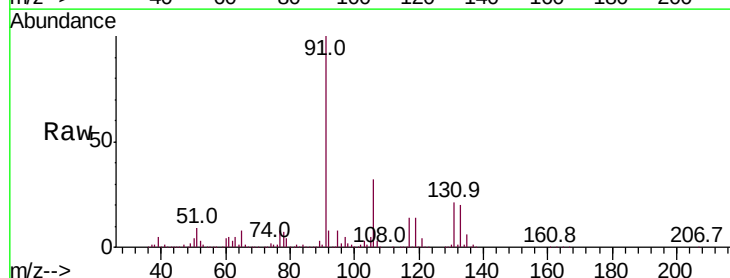
RT: 11.51 min Scan# 3028

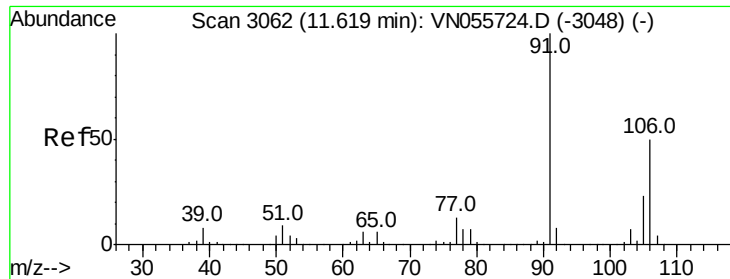
Delta R.T. 0.00 min

Lab File: VN055727.D

Acq: 22 May 2019 18:37

Tgt Ion:	91	Resp:	2400987
Ion Ratio	Lower	Upper	
91	100		
106	31.9	25.6	38.4





#67

m/p-Xylenes

Concen: 291.932 ug/l

RT: 11.62 min Scan# 3062

Delta R.T. 0.00 min

Lab File: VN055727.D

Acq: 22 May 2019 18:37

Instrument :

MSVOA_N

ClientSampled :

VSTDIC150

Tot Ion:106 Resp: 1833313

Ion Ratio Lower Upper

106 100

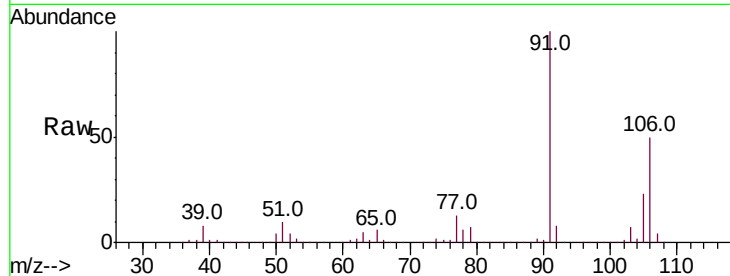
91 200.1 159.5 239.3

Manual Integrations

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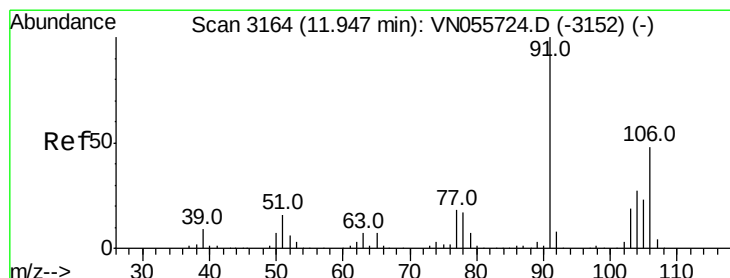
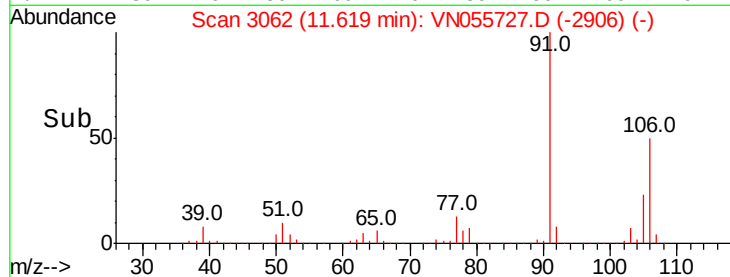
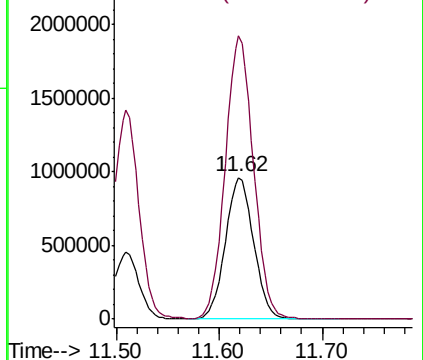
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Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN



#68

o-Xylene

Concen: 143.330 ug/l

RT: 11.95 min Scan# 3164

Delta R.T. 0.00 min

Lab File: VN055727.D

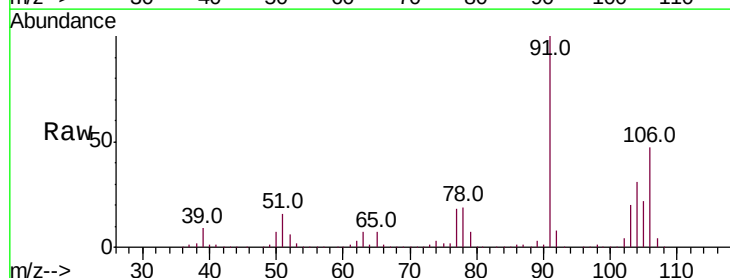
Acq: 22 May 2019 18:37

Tgt Ion:106 Resp: 894347

Ion Ratio Lower Upper

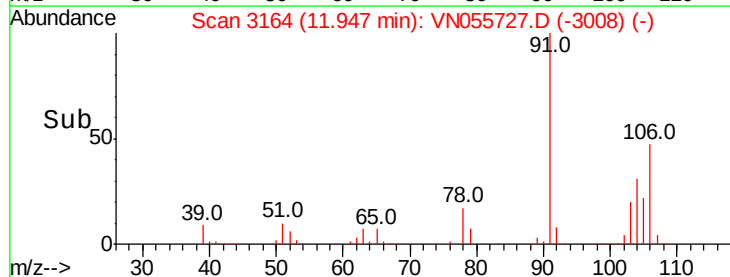
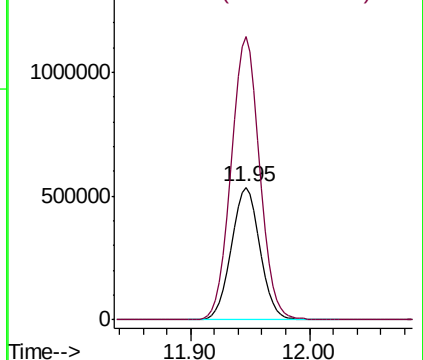
106 100

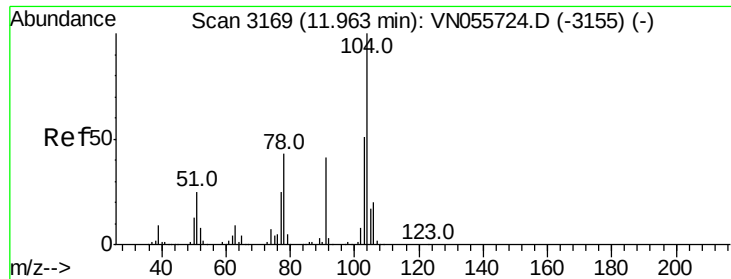
91 212.1 105.4 316.1



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN





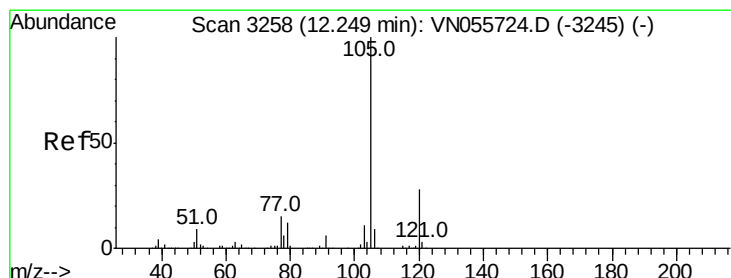
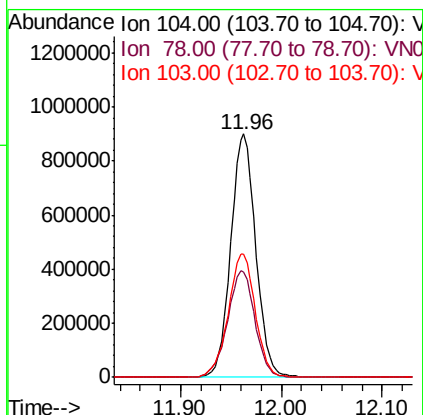
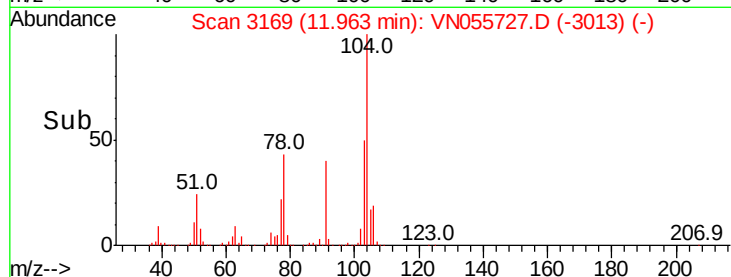
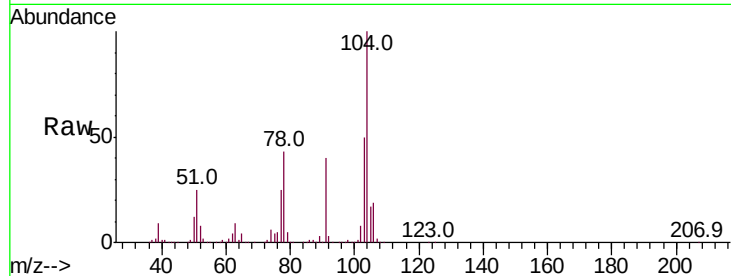
#69
Stvrene
Concen: 157.944 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN055727.D
Acq: 22 May 2019 18:37

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tot Ion	Ratio	Lower	Upper
104	100		
78	48.0	38.7	58.1
103	54.9	45.0	67.6

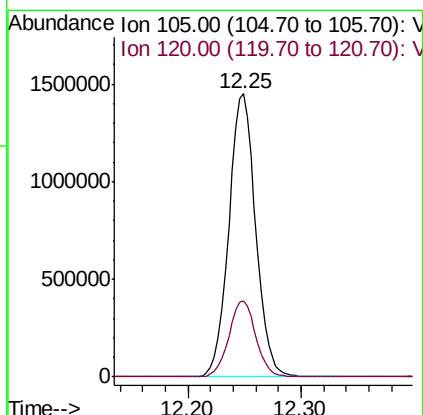
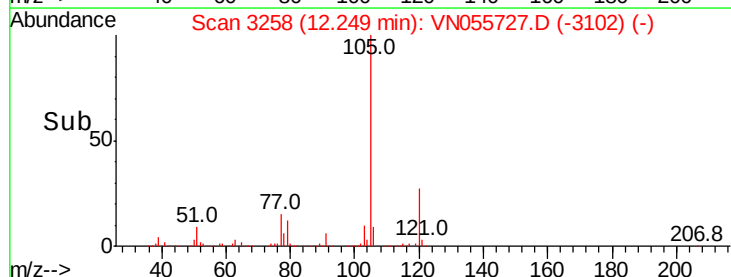
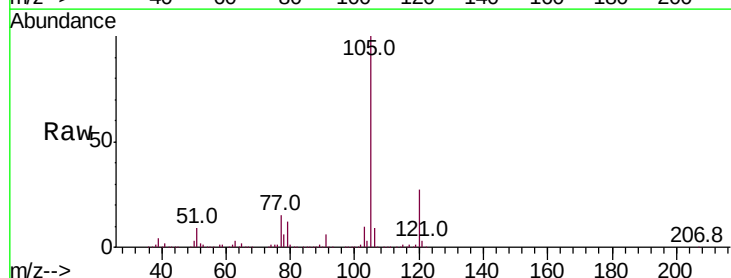
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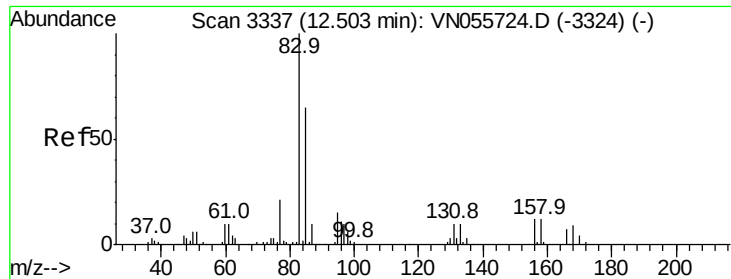
MMDadoda
5/23/2019 12:31:26 PM



#70
Isopropylbenzene
Concen: 145.192 ug/l
RT: 12.25 min Scan# 3258
Delta R.T. 0.00 min
Lab File: VN055727.D
Acq: 22 May 2019 18:37

Tgt Ion	Ratio	Lower	Upper
105	100		
120	27.0	19.2	35.6





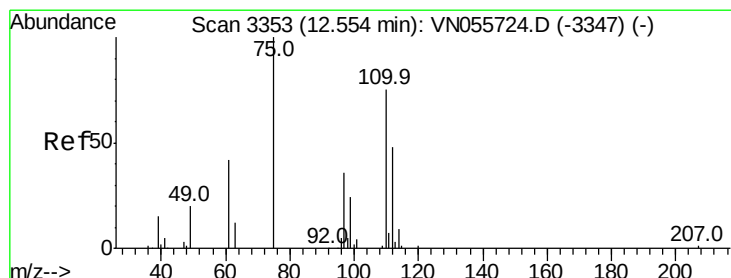
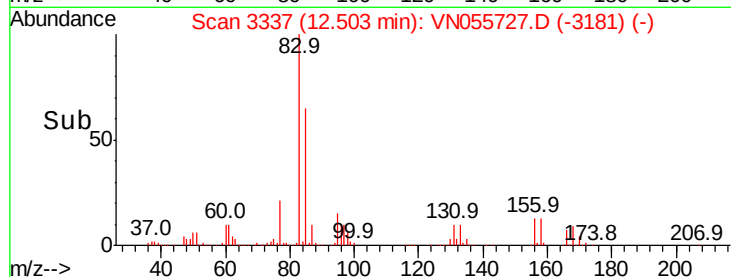
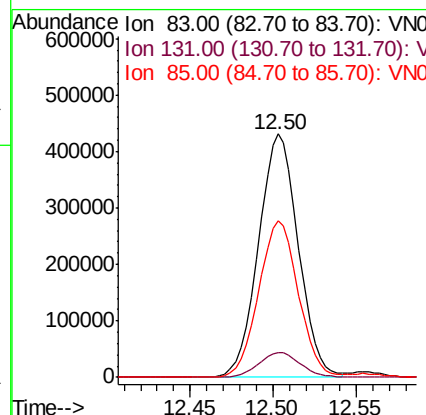
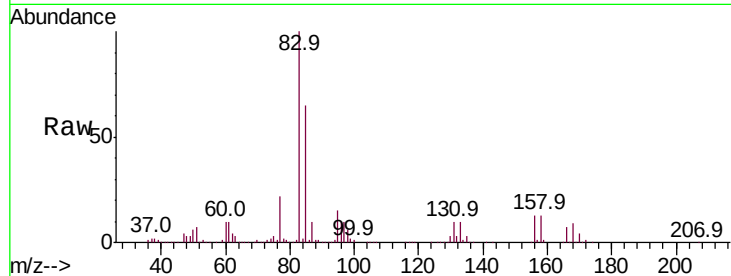
#71
 1,1,2,2-Tetrachloroethane
 Concen: 154.319 ug/l
 RT: 12.50 min Scan# 3337
 Delta R.T. 0.00 min
 Lab File: VN055727.D
 Acq: 22 May 2019 18:37

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC150

Tot Ion	Ratio	Lower	Upper
83	100		
131	10.7	5.3	15.8
85	64.4	32.3	96.9

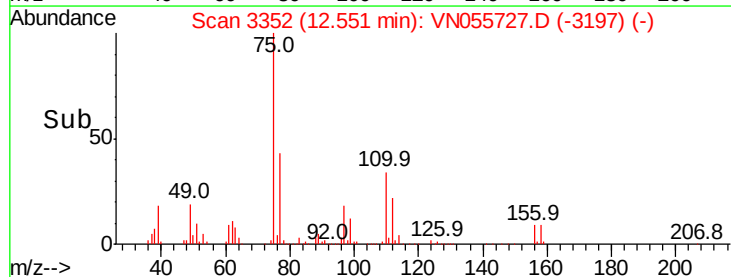
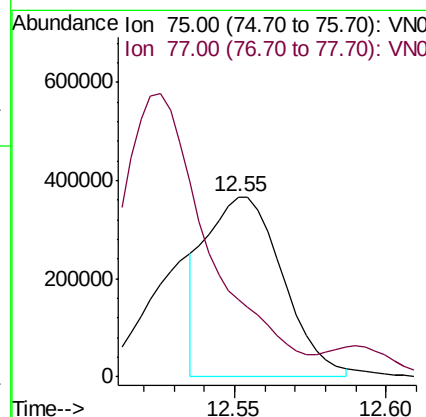
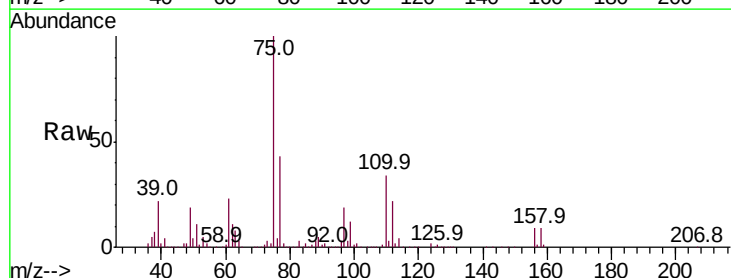
Manual Integrations
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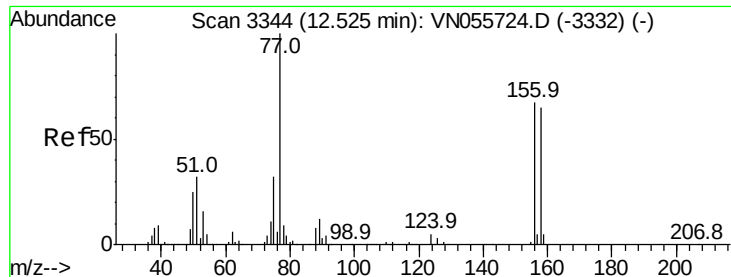
MMDadoda
 5/23/2019 12:31:26 PM



#72
 1,2,3-Trichloropropane
 Concen: 158.795 ug/l m
 RT: 12.55 min Scan# 3352
 Delta R.T. -0.00 min
 Lab File: VN055727.D
 Acq: 22 May 2019 18:37

Tgt Ion	Ratio	Lower	Upper
75	100		
77	186.5	0.0	349.8





#73

Bromobenzene

Concen: 164.664 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VN055727.D

Acq: 22 May 2019 18:37

Instrument :

MSVOA_N

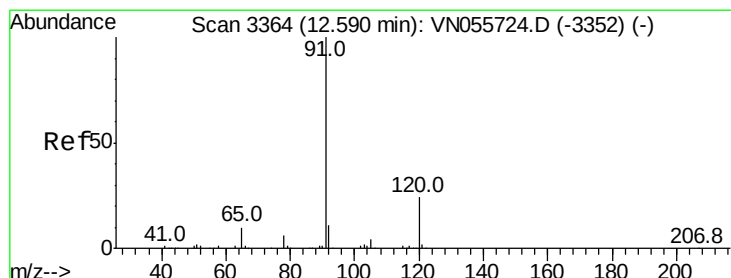
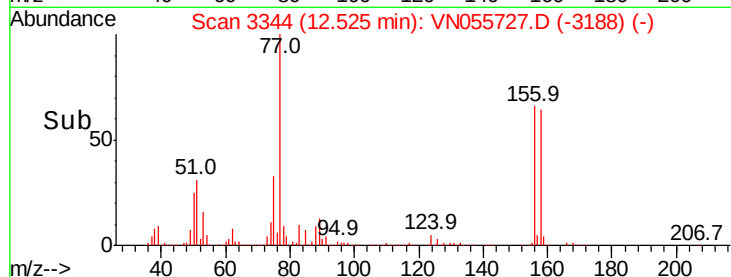
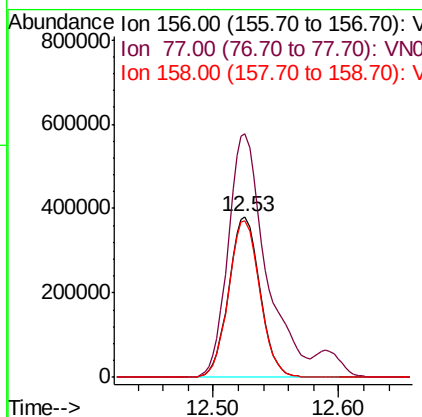
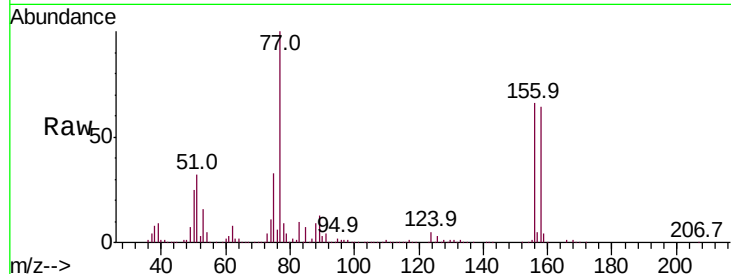
ClientSampleId :

VSTDIC150

Tot Ion:	156	Resp:	659076
Ion Ratio	Lower	Upper	
156	100		
77	183.1	0.0	368.0
158	97.6	0.0	195.0

Manual Integrations
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#74

n-propylbenzene

Concen: 149.124 ug/l

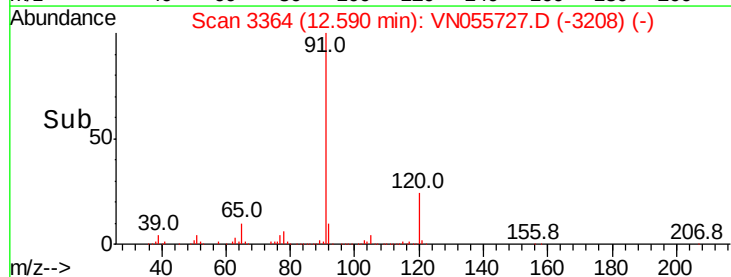
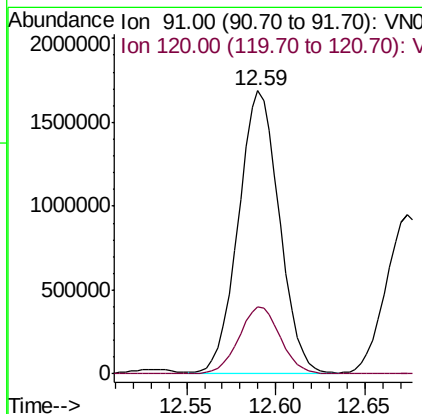
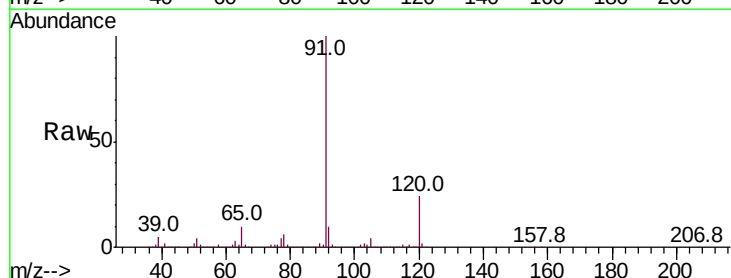
RT: 12.59 min Scan# 3364

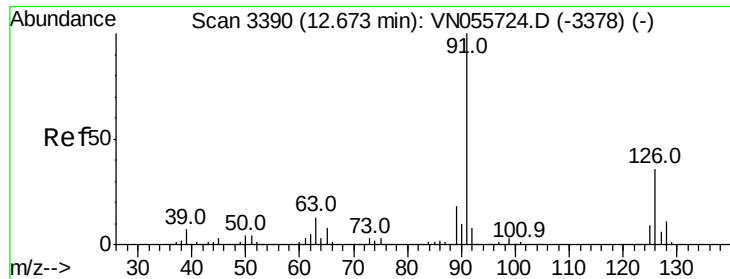
Delta R.T. 0.00 min

Lab File: VN055727.D

Acq: 22 May 2019 18:37

Tgt Ion:	91	Resp:	2715751
Ion Ratio	Lower	Upper	
91	100		
120	23.7	0.0	47.4





#75

2-Chlorotoluene

Concen: 143.365 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VN055727.D

Acq: 22 May 2019 18:37

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion: 91 Resp: 1602532

Ion Ratio Lower Upper

91 100

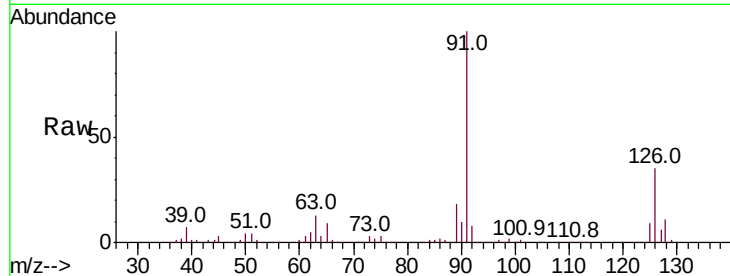
126 35.2 0.0 71.0

Manual Integrations

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Abundance Ion 91.00 (90.70 to 91.70): VN055727.D (-3234) (-)

Ion 126.00 (125.70 to 126.70): VN055727.D (-3234) (-)

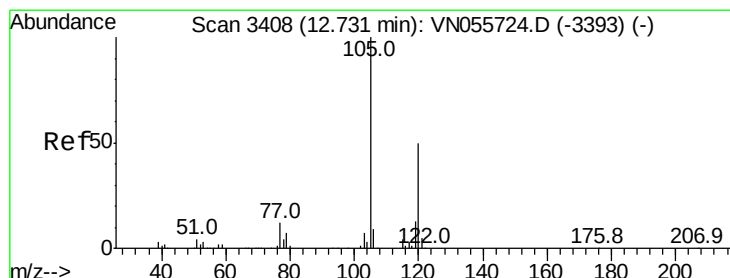
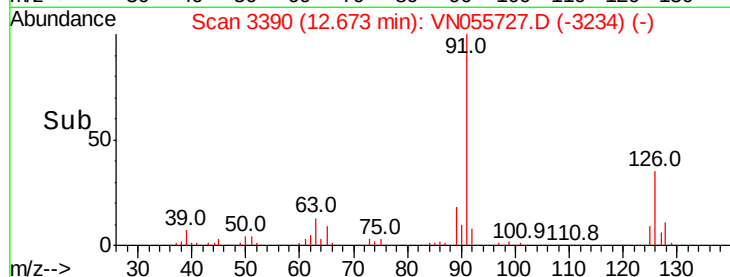
1500000

1000000

500000

0

Time--> 12.60 12.65 12.70



#76

1,3,5-Trimethylbenzene

Concen: 145.316 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN055727.D

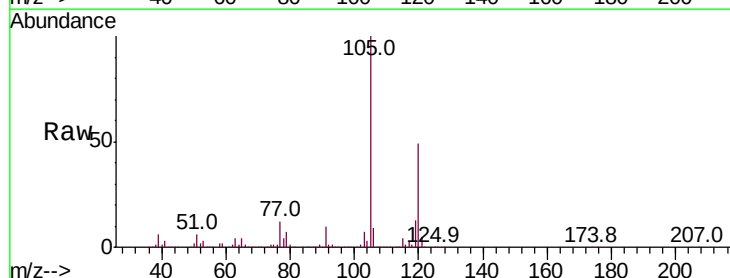
Acq: 22 May 2019 18:37

Tgt Ion: 105 Resp: 1968640

Ion Ratio Lower Upper

105 100

120 49.2 0.0 99.2



Abundance Ion 105.00 (104.70 to 105.70): VN055727.D (-3252) (-)

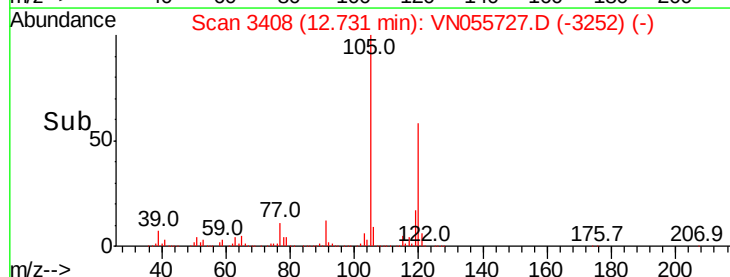
Ion 120.00 (119.70 to 120.70): VN055727.D (-3252) (-)

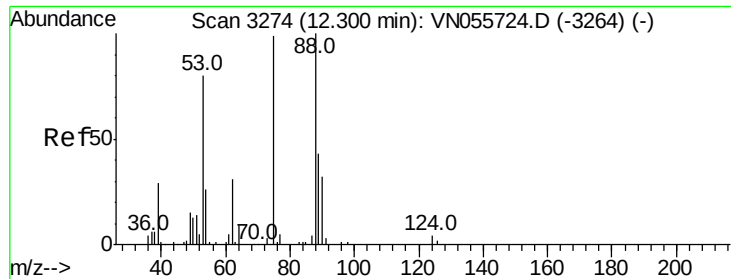
1000000

500000

0

Time--> 12.70 12.80





#77

t-1,4-Dichloro-2-butene

Concen: 218.026 ug/l

RT: 12.30 min Scan# 3274

Delta R.T. 0.00 min

Lab File: VN055727.D

Acq: 22 May 2019 18:37

Instrument :

MSVOA_N

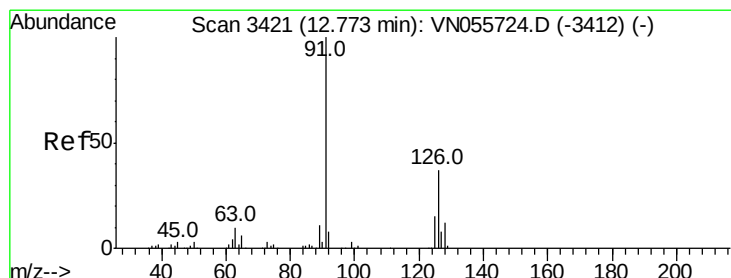
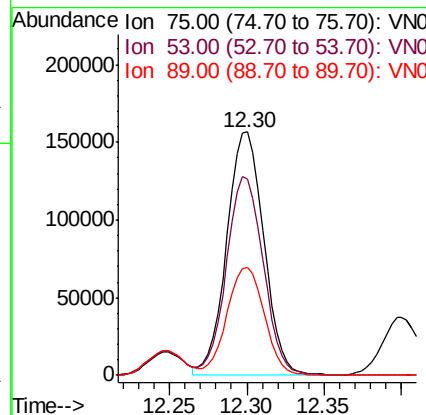
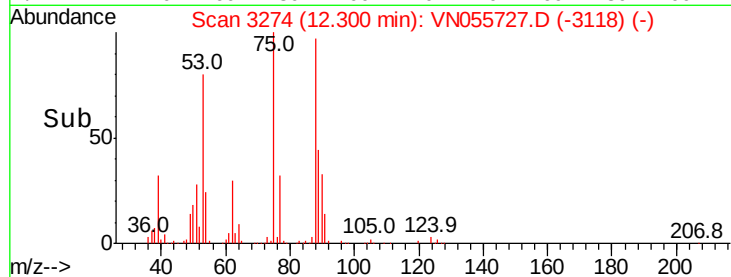
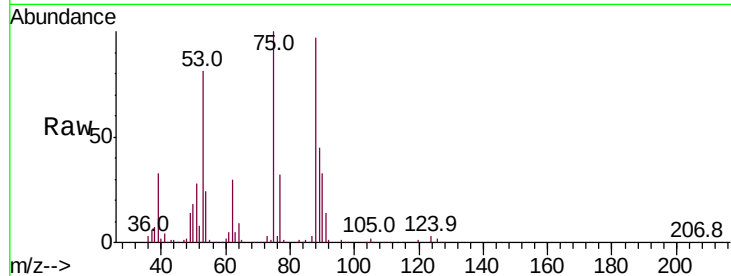
ClientSampleId :

VSTDIC150

Tot Ion:	75	Resp:	261370
Ion	Ratio	Lower	Upper
75	100		
53	80.5	40.1	120.3
89	44.6	22.6	67.8

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#78

4-Chlorotoluene

Concen: 149.196 ug/l

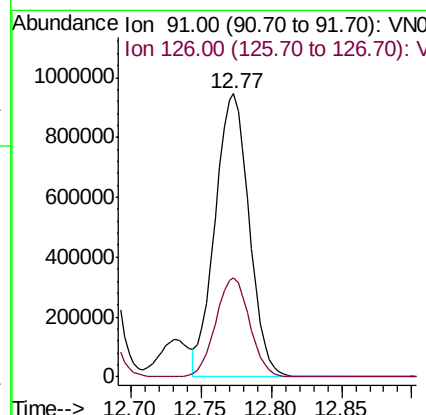
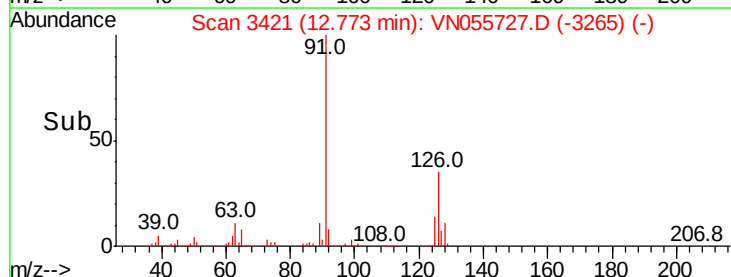
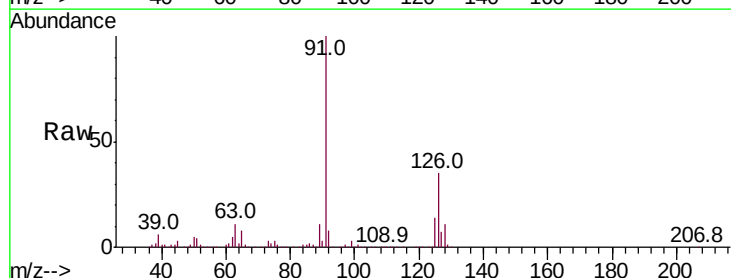
RT: 12.77 min Scan# 3421

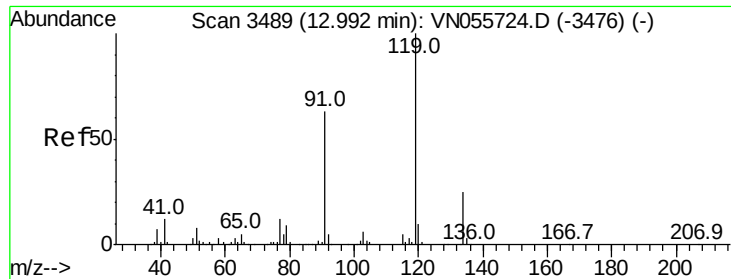
Delta R.T. 0.00 min

Lab File: VN055727.D

Acq: 22 May 2019 18:37

Tgt Ion:	91	Resp:	1581029
Ion	Ratio	Lower	Upper
91	100		
126	34.9	0.0	69.0





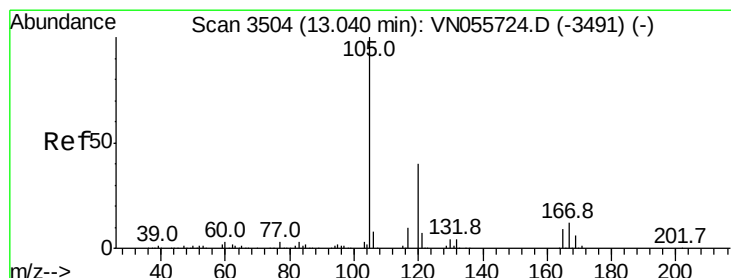
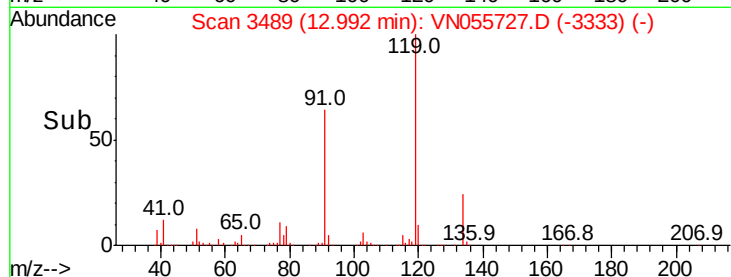
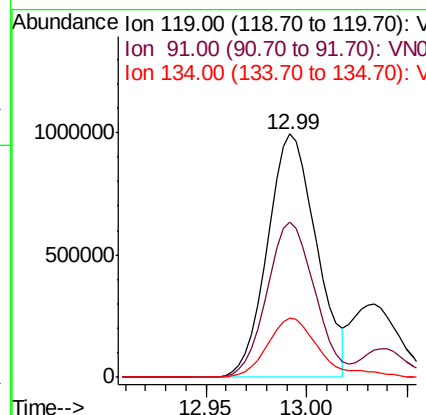
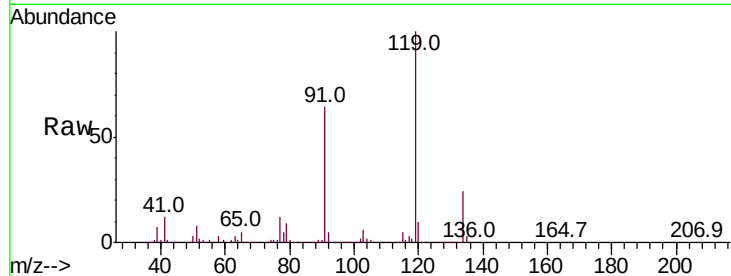
#79
tert-butylbenzene
Concen: 142.787 ug/l
RT: 12.99 min Scan# 3489
Delta R.T. 0.00 min
Lab File: VN055727.D
Acq: 22 May 2019 18:37

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tot Ion	Ratio	Lower	Upper
119	100		
91	62.5	0.0	123.8
134	26.1	0.0	52.6

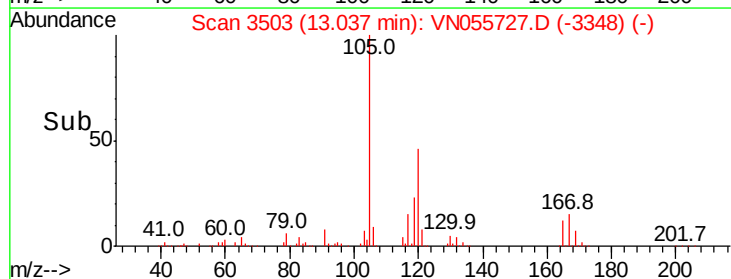
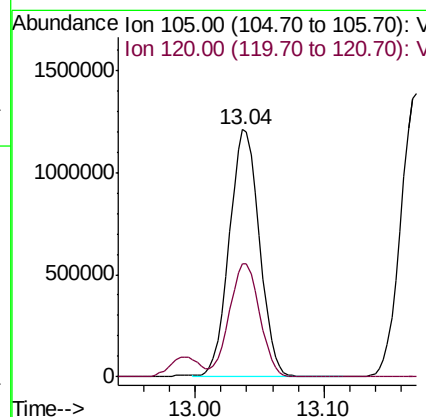
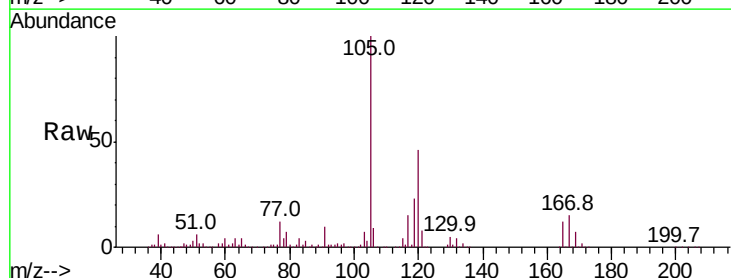
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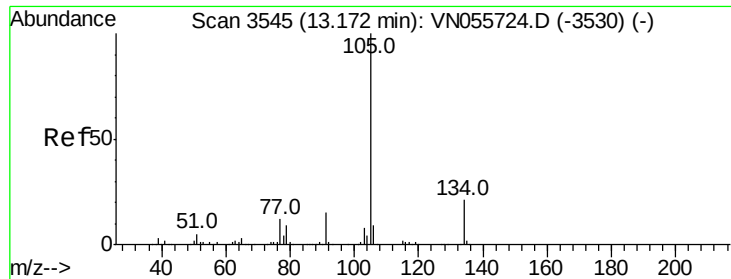
MMDadoda
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#80
1,2,4-Trimethylbenzene
Concen: 149.693 ug/l
RT: 13.04 min Scan# 3503
Delta R.T. -0.00 min
Lab File: VN055727.D
Acq: 22 May 2019 18:37

Tgt Ion	Ratio	Lower	Upper
105	100		
120	46.1	0.0	93.6





#81

sec-Butylbenzene

Concen: 144.111 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. 0.00 min

Lab File: VN055727.D

Acq: 22 May 2019 18:37

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion:105 Resp: 2210792

Ion Ratio Lower Upper

105 100

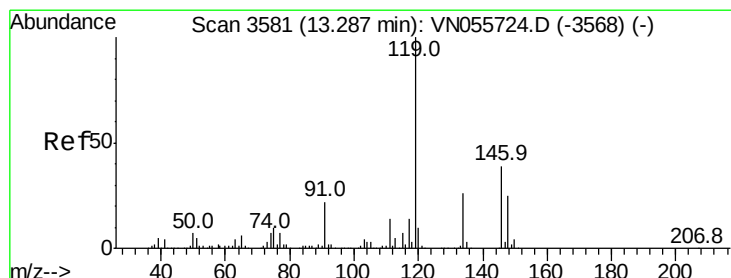
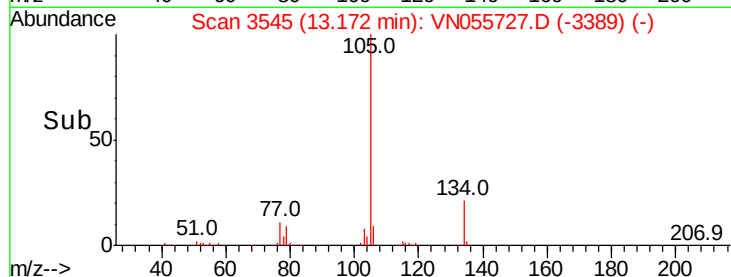
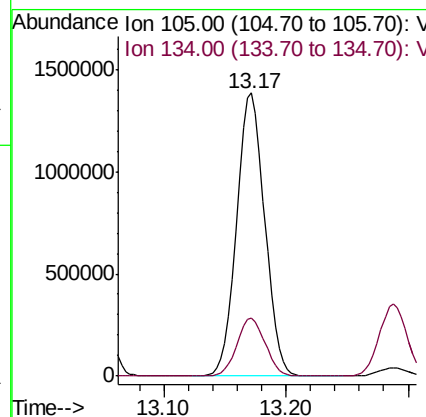
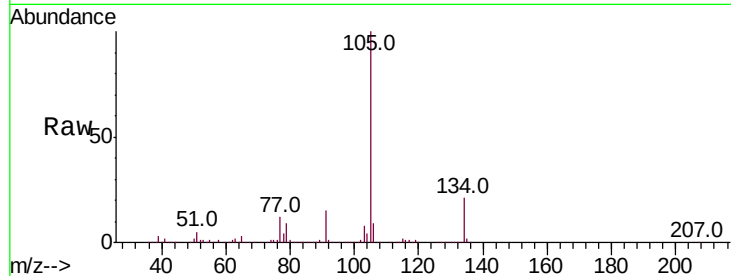
134 20.6 0.0 41.4

Manual Integrations

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5/23/2019 12:31:26 PM



#82

p-Isopropyltoluene

Concen: 159.344 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. 0.00 min

Lab File: VN055727.D

Acq: 22 May 2019 18:37

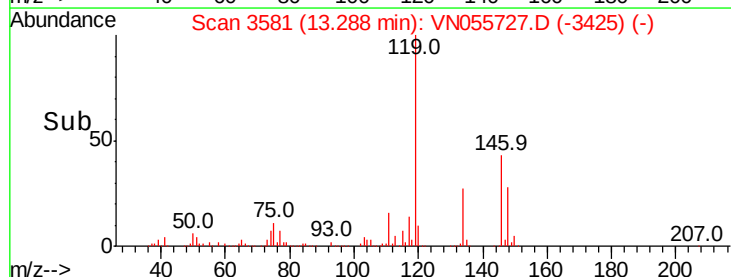
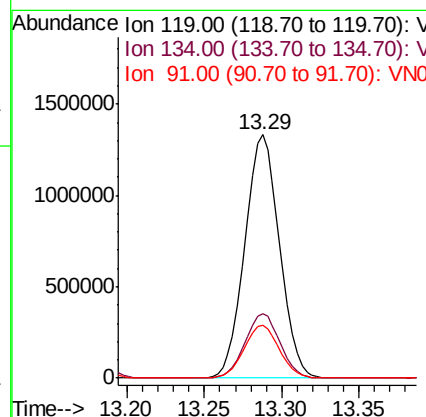
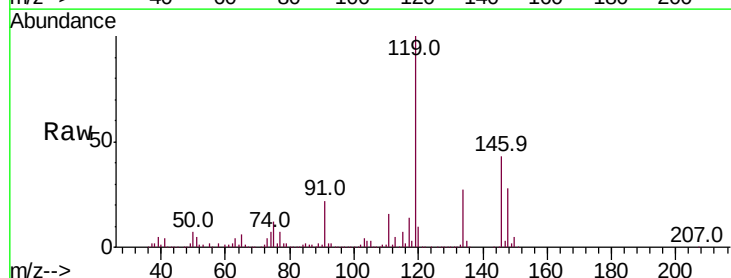
Tgt Ion:119 Resp: 2075494

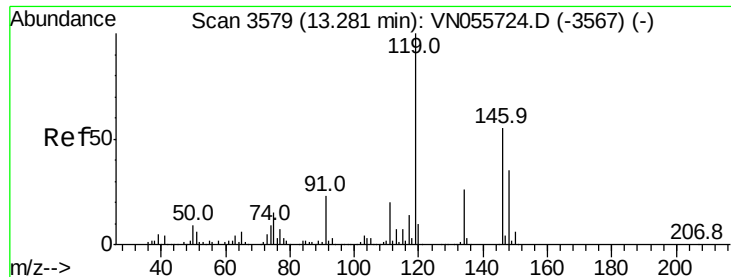
Ion Ratio Lower Upper

119 100

134 26.6 0.0 52.0

91 22.0 0.0 44.4





#83
 1,3-Dichlorobenzene
 Concen: 167.938 ug/l
 RT: 13.28 min Scan# 3579
 Delta R.T. 0.00 min
 Lab File: VN055727.D
 Acq: 22 May 2019 18:37

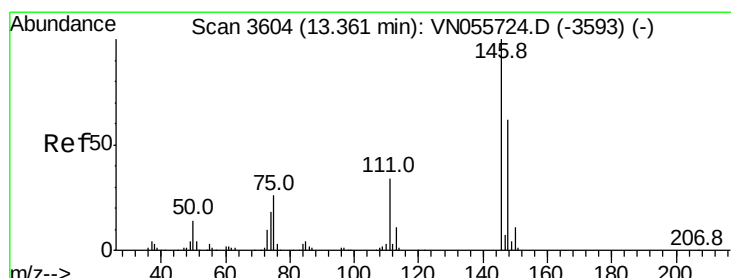
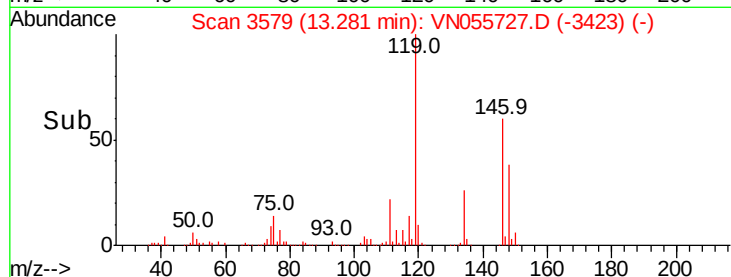
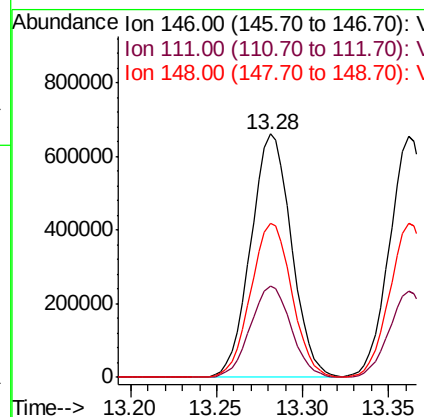
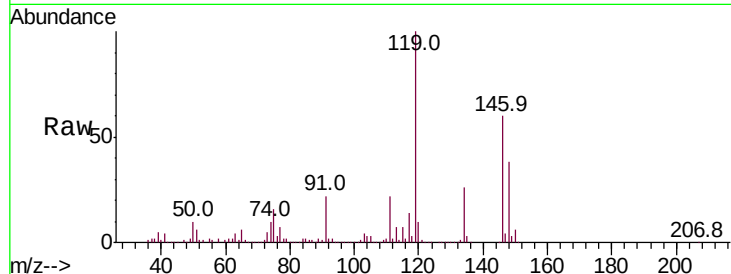
Instrument :
 MSVOA_N
 ClientSampled :
 VSTDIC150

Tot Ion:146 Resp: 1085356

Ion	Ratio	Lower	Upper
146	100		
111	37.4	18.6	55.6
148	63.9	32.2	96.6

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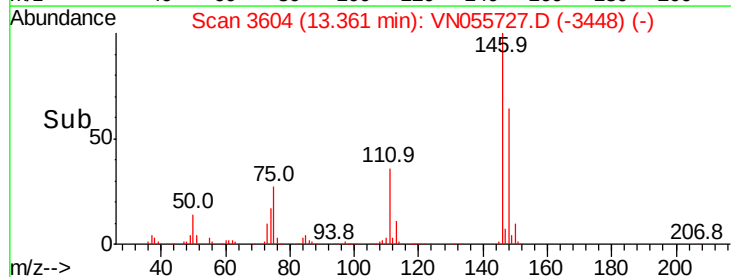
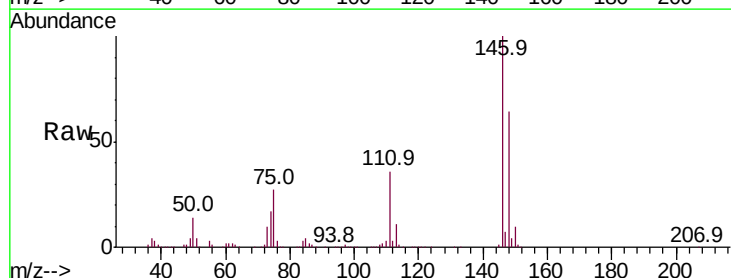
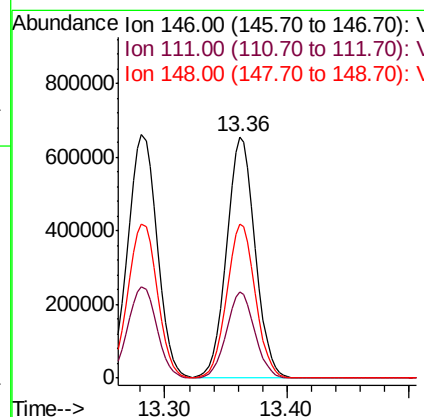
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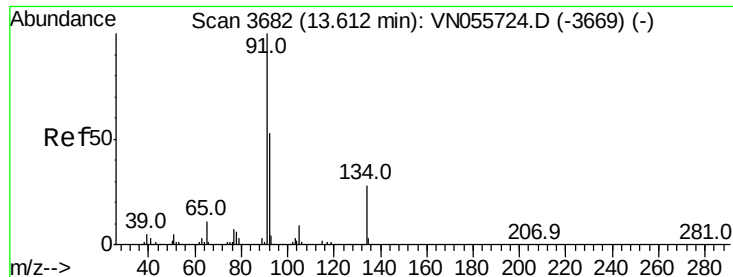


#84
 1,4-Dichlorobenzene
 Concen: 175.869 ug/l
 RT: 13.36 min Scan# 3604
 Delta R.T. 0.00 min
 Lab File: VN055727.D
 Acq: 22 May 2019 18:37

Tgt Ion:146 Resp: 1072113

Ion	Ratio	Lower	Upper
146	100		
111	35.5	17.5	52.6
148	64.2	31.8	95.4





#85

n-Butylbenzene

Concen: 174.617 ug/l

RT: 13.61 min Scan# 3682

Delta R.T. 0.00 min

Lab File: VN055727.D

Acq: 22 May 2019 18:37

Instrument :

MSVOA_N

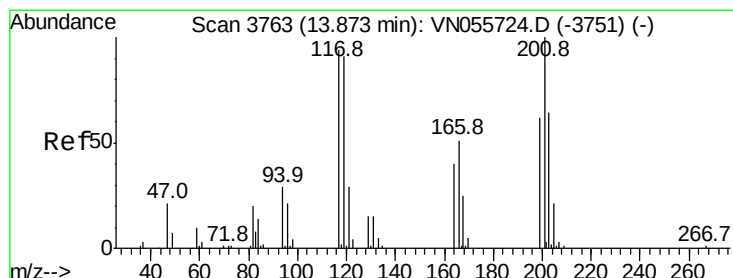
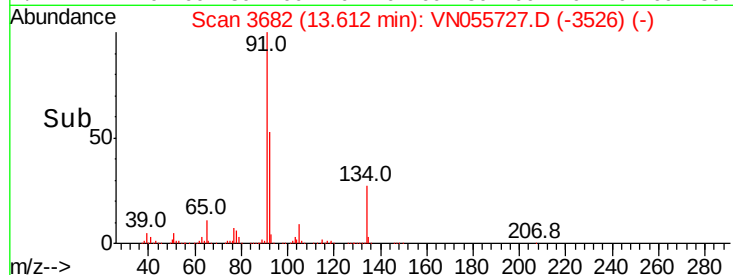
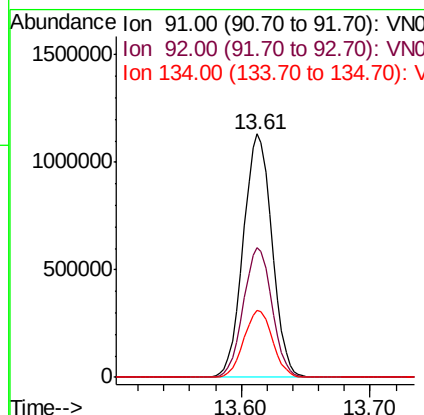
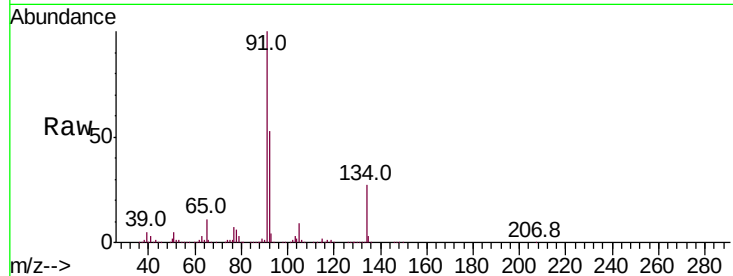
ClientSampleId :

VSTDIC150

Tot Ion:	91	Resp:	1750910
Ion	Ratio	Lower	Upper
91	100		
92	53.2	0.0	106.8
134	27.5	0.0	55.2

Manual Integrations
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#86

Hexachloroethane

Concen: 169.264 ug/l

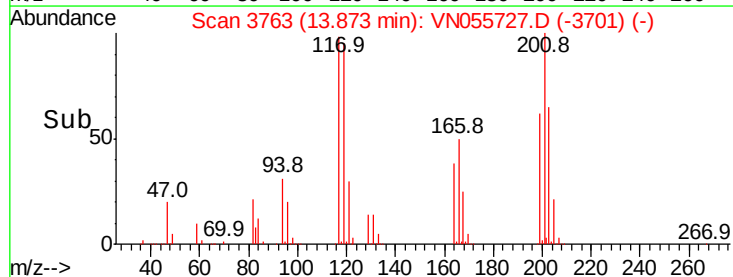
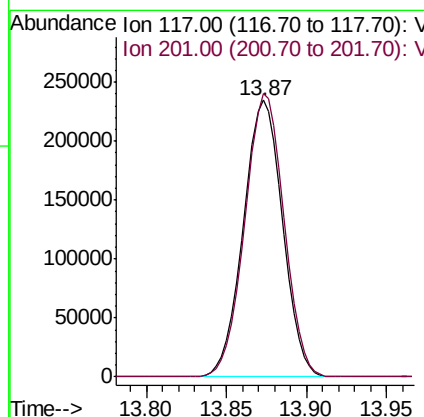
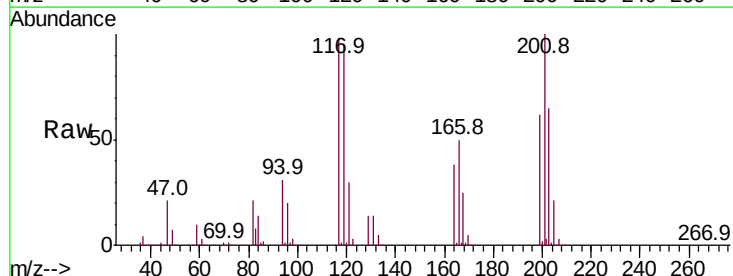
RT: 13.87 min Scan# 3763

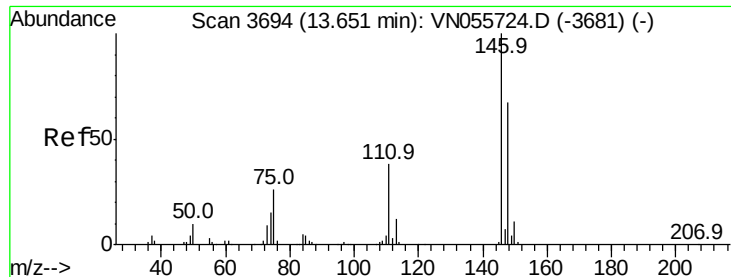
Delta R.T. 0.00 min

Lab File: VN055727.D

Acq: 22 May 2019 18:37

Tgt Ion:	117	Resp:	392311
Ion	Ratio	Lower	Upper
117	100		
201	102.2	52.5	157.6





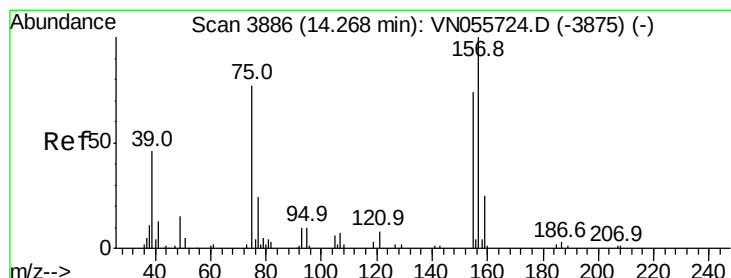
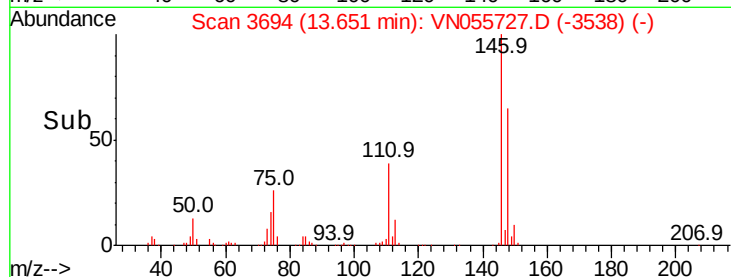
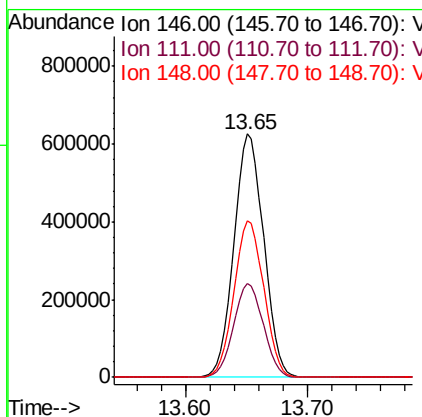
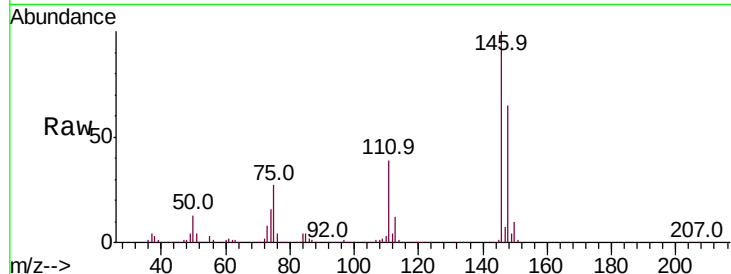
#87
 1,2-Dichlorobenzene
 Concen: 163.294 ug/l
 RT: 13.65 min Scan# 3694
 Delta R.T. 0.00 min
 Lab File: VN055727.D
 Acq: 22 May 2019 18:37

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC150

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.4	19.2	57.6
148	64.3	32.7	98.1

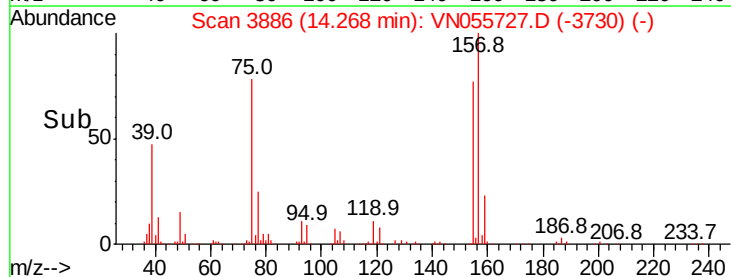
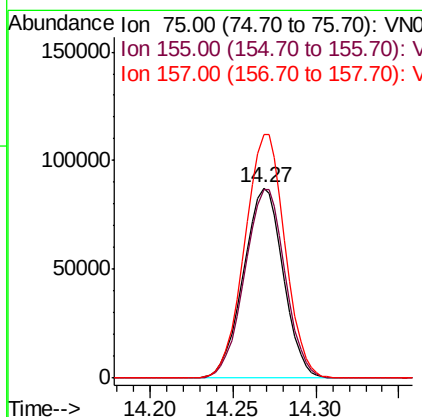
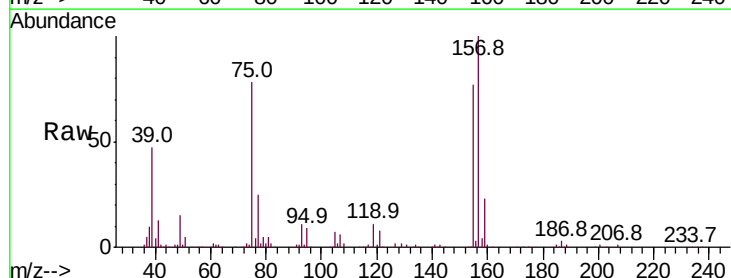
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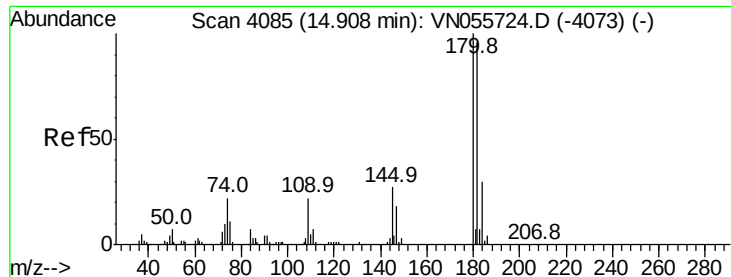
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#88
 1,2-Dibromo-3-Chloropropane
 Concen: 199.101 ug/l
 RT: 14.27 min Scan# 3886
 Delta R.T. 0.00 min
 Lab File: VN055727.D
 Acq: 22 May 2019 18:37

Tgt Ion	Ratio	Lower	Upper
75	100		
155	100.8	78.4	117.6
157	129.3	105.0	157.4





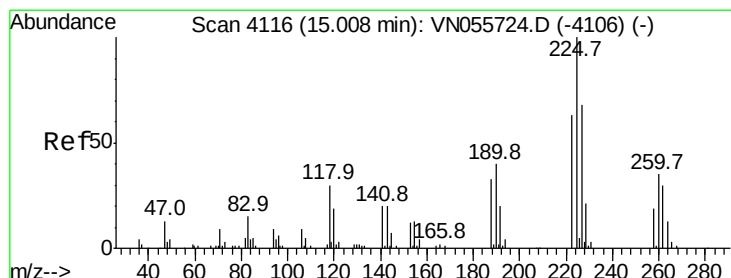
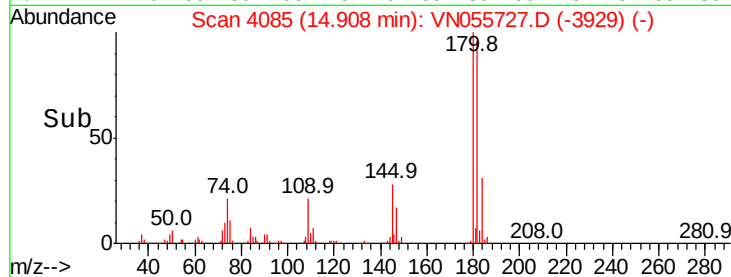
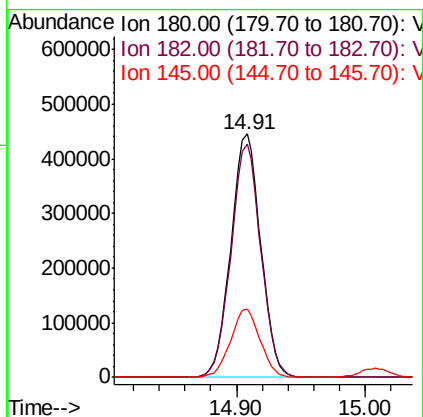
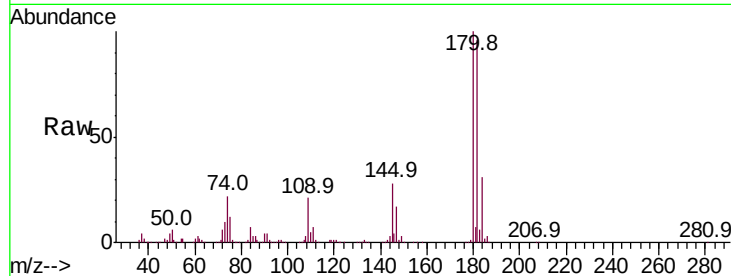
#89
 1,2,4-Trichlorobenzene
 Concen: 260.253 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN055727.D
 Acq: 22 May 2019 18:37

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC150

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.5	76.1	114.1
145	27.8	21.8	32.8

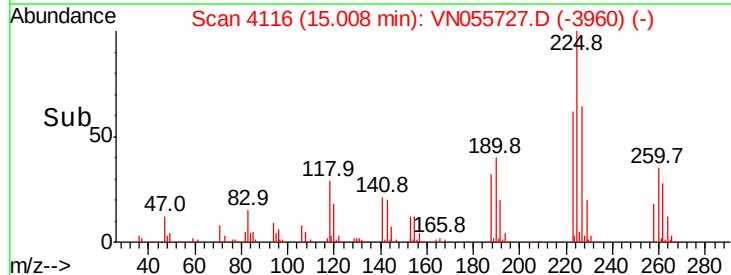
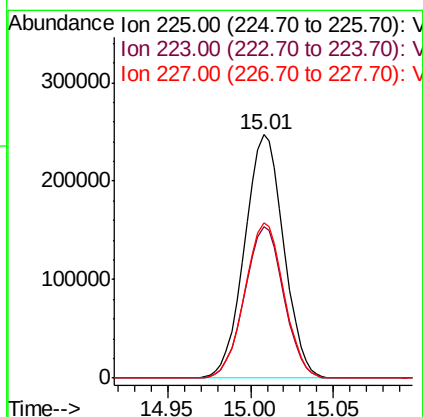
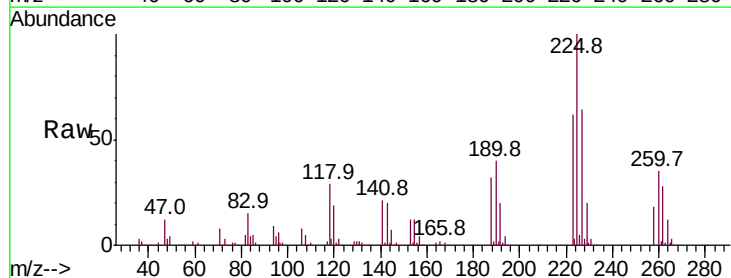
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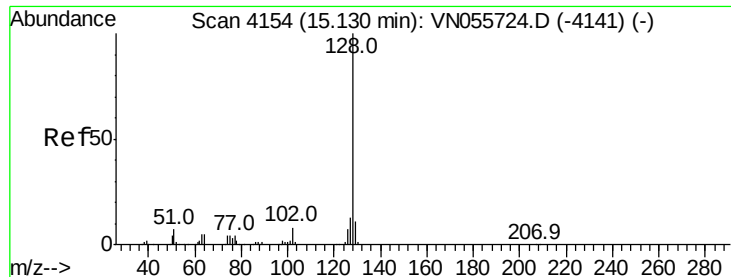
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#90
 Hexachlorobutadiene
 Concen: 178.324 ug/l
 RT: 15.01 min Scan# 4116
 Delta R.T. 0.00 min
 Lab File: VN055727.D
 Acq: 22 May 2019 18:37

Tgt Ion	Ratio	Lower	Upper
225	100		
223	62.4	0.0	126.0
227	64.0	0.0	133.0





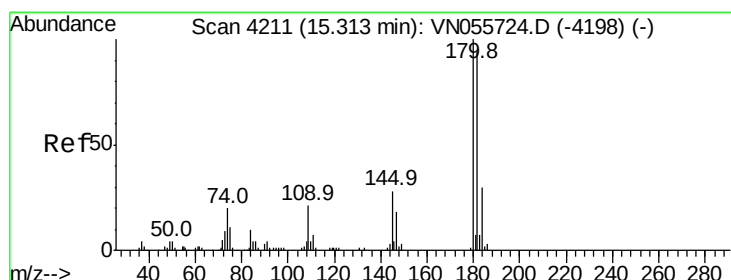
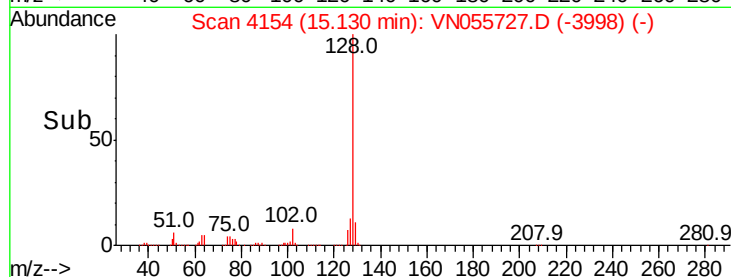
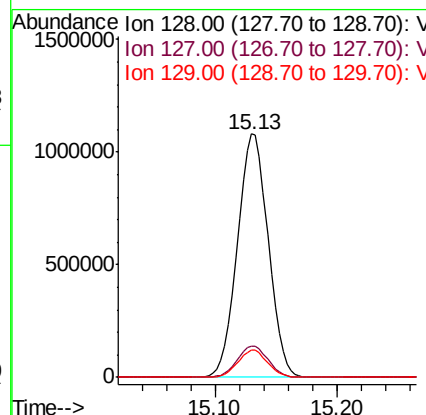
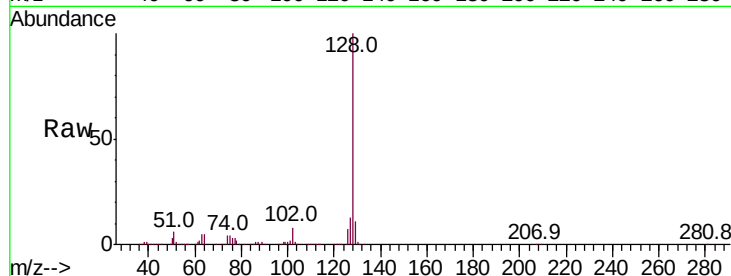
#91
Naphthalene
Concen: 281.016 ug/l
RT: 15.13 min Scan# 4154
Delta R.T. 0.00 min
Lab File: VN055727.D
Acq: 22 May 2019 18:37

Instrument :
MSVOA_N
ClientSampled :
VSTDIC150

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.0	15.0
129	10.9	8.7	13.1

Manual Integrations
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#92
1,2,3-Trichlorobenzene
Concen: 243.455 ug/l
RT: 15.31 min Scan# 4211
Delta R.T. 0.00 min
Lab File: VN055727.D
Acq: 22 May 2019 18:37

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.2	0.0	188.6
145	29.4	0.0	56.8

