

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU080118\
 Data File : VU025756.D
 Acq On : 31 Jul 2018 22:01
 Operator : MD/SY
 Sample : VU0801MBSD01
 Misc : 5.00µg/10mL/100µL/5.00mL/MSVOA_U/MEOH
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0801MBSD01

Manual Integrations
 APPROVED

MMDadoda
 8/2/2018 9:41:02 AM

Quant Time: Aug 01 06:02:16 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U072718W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 31 16:07:47 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.99	168	180583	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	274278	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	261091	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	162378	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.31	65	139470	49.57	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.14%	
35) Dibromofluoromethane	4.89	113	113940	47.76	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.52%	
50) Toluene-d8	7.57	98	404373	48.44	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.88%	
62) 4-Bromofluorobenzene	10.31	95	156560	48.32	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.64%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.21	85	59651	21.855	ug/l	99
3) Chloromethane	1.33	50	50944	19.528	ug/l	100
4) Vinyl Chloride	1.40	62	51026	20.785	ug/l	97
5) Bromomethane	1.63	94	25671	21.409	ug/l	95
6) Chloroethane	1.70	64	28026	19.523	ug/l	96
7) Trichlorofluoromethane	1.89	101	72601	20.454	ug/l	100
8) Diethyl Ether	2.10	74	25551	19.895	ug/l	98
9) 1,1,2-Trichlorotrifluoroet	2.29	101	41493	20.200	ug/l	99
10) Methyl Iodide	2.41	142	30060	21.588	ug/l	98
11) Tert butyl alcohol	2.83	59	55295	89.762	ug/l	99
12) 1,1-Dichloroethene	2.28	96	39359	20.299	ug/l	93
13) Acrolein	2.19	56	27313	121.382	ug/l	94
14) Allyl chloride	2.59	41	66732	19.151	ug/l	96
15) Acrylonitrile	2.94	53	127345	103.538	ug/l	99
16) Acetone	2.32	43	114393	83.390	ug/l	95
17) Carbon Disulfide	2.48	76	121432	19.351	ug/l	100
18) Methyl Acetate	2.62	43	79694	24.137	ug/l	100
19) Methyl tert-butyl Ether	3.00	73	148214	21.094	ug/l	98
20) Methylene Chloride	2.70	84	47253	19.437	ug/l	98
21) trans-1,2-Dichloroethene	2.99	96	46392	20.698	ug/l	95
22) Diisopropyl ether	3.57	45	143748	20.935	ug/l	96
23) Vinyl Acetate	3.53	43	603665	100.882	ug/l	100
24) 1,1-Dichloroethane	3.45	63	87351	21.193	ug/l	99
25) 2-Butanone	4.27	43	180698	96.766	ug/l	99
26) 2,2-Dichloropropane	4.23	77	64271	17.155	ug/l	99
27) cis-1,2-Dichloroethene	4.23	96	51065	20.208	ug/l	98
28) Bromochloromethane	4.55	49	40004	21.707	ug/l	99
29) Tetrahydrofuran	4.64	42	112968	100.975	ug/l	99
30) Chloroform	4.68	83	90199	20.732	ug/l	99
31) Cyclohexane	5.00	56	73961	19.811	ug/l	96
32) 1,1,1-Trichloroethane	4.92	97	83053	21.203	ug/l	99
36) 1,1-Dichloropropene	5.14	75	66338	20.696	ug/l	99
37) Ethyl Acetate	4.38	43	68370	20.571	ug/l	99
38) Carbon Tetrachloride	5.14	117	72549	19.983	ug/l	98

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU080118\
 Data File : VU025756.D
 Acq On : 31 Jul 2018 22:01
 Operator : MD/SY
 Sample : VU0801MBSD01
 Misc : 5.00µg/10mL/100µL/5.00mL/MSVOA_U/MEOH
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0801MBSD01

Manual Integrations
 APPROVED

MMDadoda
 8/2/2018 9:41:02 AM

Quant Time: Aug 01 06:02:16 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U072718W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 31 16:07:47 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	6.42	83	72263	19.676	ug/l	97
40) Benzene	5.39	78	186230	19.876	ug/l	99
41) Methacrylonitrile	4.54	41	37996	20.582	ug/l	99
42) 1,2-Dichloroethane	5.41	62	72082	19.980	ug/l	99
43) Isopropyl Acetate	5.55	43	111577	20.315	ug/l	99
44) Trichloroethene	6.19	130	52606	20.161	ug/l	99
45) 1,2-Dichloropropane	6.44	63	48164	19.710	ug/l	95
46) Dibromomethane	6.56	93	35262	19.915	ug/l	98
47) Bromodichloromethane	6.76	83	68042	20.146	ug/l	97
48) Methyl methacrylate	6.63	41	57158	21.234	ug/l	98
49) 1,4-Dioxane	6.62	88	24400	372.489	ug/l	96
51) 4-Methyl-2-Pentanone	7.46	43	344396	100.158	ug/l	100
52) Toluene	7.64	92	118297	20.323	ug/l	99
53) t-1,3-Dichloropropene	7.88	75	75761	19.978	ug/l	100
54) cis-1,3-Dichloropropene	7.27	75	78265	20.091	ug/l	98
55) 1,1,2-Trichloroethane	8.07	97	49324	20.390	ug/l	98
56) Ethyl methacrylate	8.02	69	70733	20.465	ug/l	97
57) 1,3-Dichloropropane	8.25	76	82918	20.383	ug/l	100
58) 2-Chloroethyl Vinyl ether	7.13	63	137287	92.310	ug/l	99
59) 2-Hexanone	8.36	43	265889	98.646	ug/l	99
60) Dibromochloromethane	8.48	129	57483	20.151	ug/l	99
61) 1,2-Dibromoethane	8.59	107	55509	20.633	ug/l	98
64) Tetrachloroethene	8.23	164	48119	20.938	ug/l	99
65) Chlorobenzene	9.12	112	136883	20.335	ug/l	100
66) 1,1,1,2-Tetrachloroethane	9.21	131	51542	21.166	ug/l	100
67) Ethyl Benzene	9.25	91	230153	20.641	ug/l	100
68) m/p-Xylenes	9.38	106	180793	42.233	ug/l	98
69) o-Xylene	9.78	106	85627	20.466	ug/l	98
70) Styrene	9.80	104	140353	20.769	ug/l	98
71) Bromoform	9.96	173	43540	20.620	ug/l #	98
73) Isopropylbenzene	10.17	105	235594	21.258	ug/l	100
74) N-amyl acetate	10.01	43	93864	20.746	ug/l	99
75) 1,1,2,2-Tetrachloroethane	10.46	83	78772	20.554	ug/l	98
76) 1,2,3-Trichloropropane	10.50	75	70948m	19.831	ug/l	
77) Bromobenzene	10.45	156	64314	21.039	ug/l	98
78) n-propylbenzene	10.59	91	272777	21.088	ug/l	99
79) 2-Chlorotoluene	10.66	91	161790	21.354	ug/l	99
80) 1,3,5-Trimethylbenzene	10.78	105	199776	21.225	ug/l	99
81) trans-1,4-Dichloro-2-buten	10.52	75	19287m	13.518	ug/l	
82) 4-Chlorotoluene	10.78	91	191204	21.409	ug/l	99
83) tert-Butylbenzene	11.10	119	193060	20.645	ug/l	98
84) 1,2,4-Trimethylbenzene	11.15	105	205015	21.495	ug/l	98
85) sec-Butylbenzene	11.33	105	240052	21.025	ug/l	100
86) p-Isopropyltoluene	11.48	119	215145	21.044	ug/l	99
87) 1,3-Dichlorobenzene	11.42	146	118668	20.914	ug/l	99
88) 1,4-Dichlorobenzene	11.51	146	120512	20.375	ug/l	99
89) n-Butylbenzene	11.89	91	187626	19.888	ug/l	99
90) Hexachloroethane	12.15	117	35401	19.475	ug/l	98
91) 1,2-Dichlorobenzene	11.88	146	116888	21.017	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	12.66	75	18762	20.650	ug/l	97

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU080118\
Data File : VU025756.D
Acq On : 31 Jul 2018 22:01
Operator : MD/SY
Sample : VU0801MBSD01
Misc : 5.00µ/10mL/100uL/5.00mL/MSVOA_U/MEOH
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VU0801MBSD01

Manual Integrations
APPROVED

MMDadoda
8/2/2018 9:41:02 AM

Quant Time: Aug 01 06:02:16 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U072718W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 31 16:07:47 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	13.51	180	78934	21.028	ug/l	97
94) Hexachlorobutadiene	13.70	225	37096	18.748	ug/l	99
95) Naphthalene	13.74	128	242861	20.889	ug/l	99
96) 1,2,3-Trichlorobenzene	13.99	180	80422	21.477	ug/l	99

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

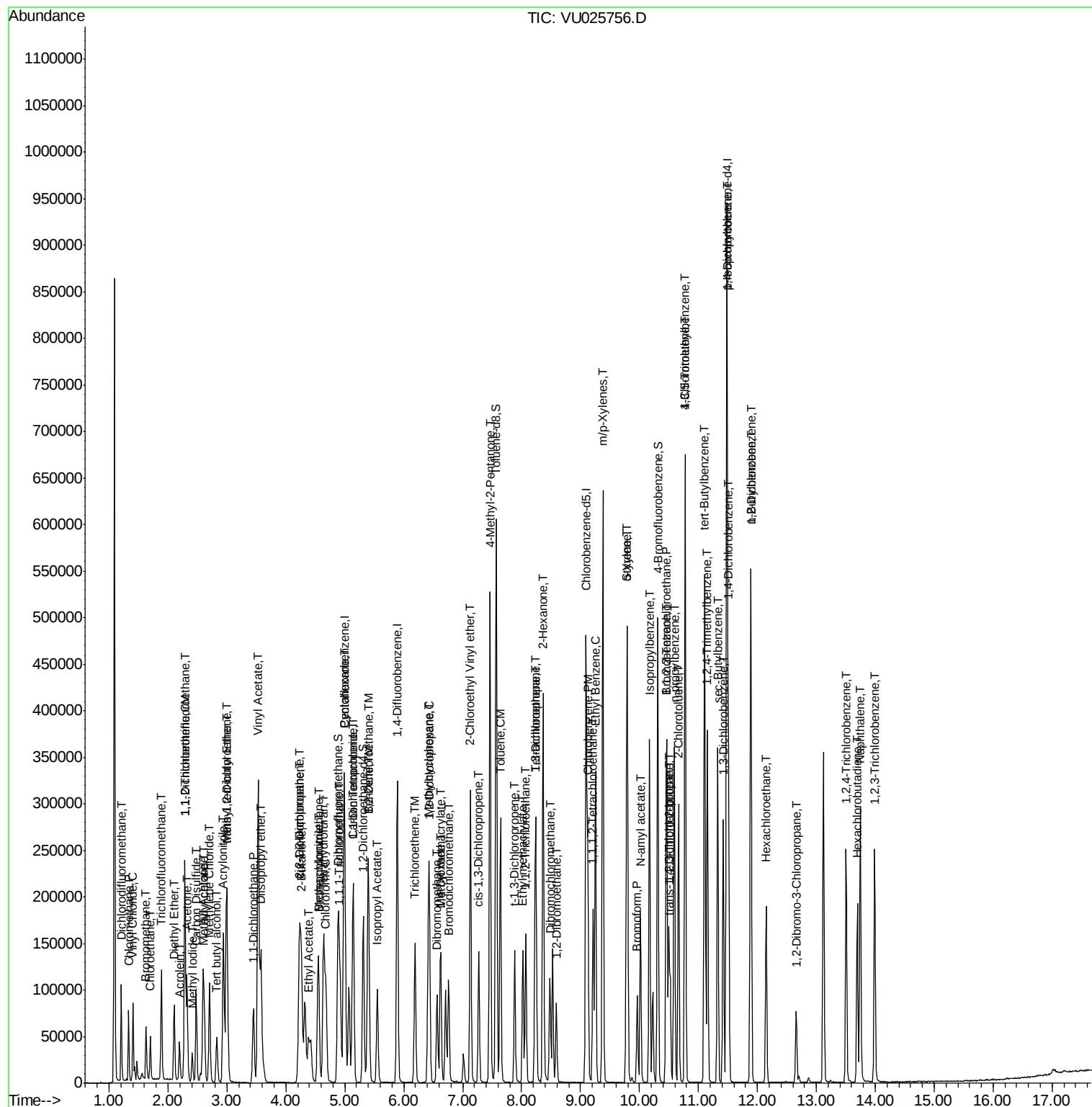
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU080118\
Data File : VU025756.D
Acq On : 31 Jul 2018 22:01
Operator : MD/SY
Sample : VU0801MBSD01
Misc : 5.00µ/10mL/100uL/5.00mL/MSVOA_U/MEOH
ALS Vial : 23 Sample Multiplier: 1

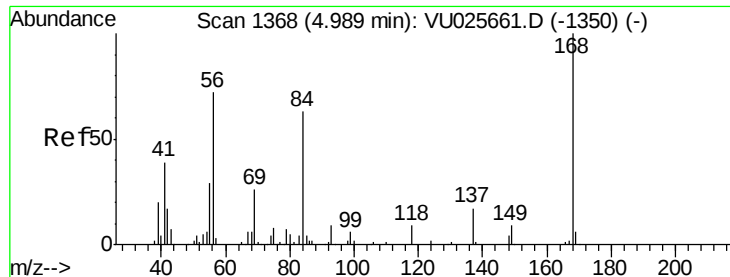
Instrument :
MSVOA_U
ClientSampleId :
VU0801MBSD01

Manual Integrations
APPROVED

MMDadoda
8/2/2018 9:41:02 AM

Quant Time: Aug 01 06:02:16 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_U\METHOD\82U072718W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 31 16:07:47 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.99 min Scan# 1367

Delta R.T. -0.00 min

Lab File: VU025756.D

Acq: 31 Jul 2018 22:01

Instrument :

MSVOA_U

ClientSampleId :

VU0801MBSD01

Tot Ion:168 Resp: 180583

Ion Ratio Lower Upper

168 100

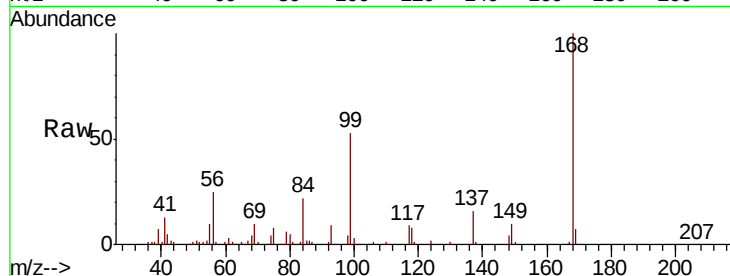
99 52.6 42.8 64.2

Manual Integrations

APPROVED

MMDadoda

8/2/2018 9:41:02 AM



Abundance Ion 167.90 (167.60 to 168.60): VU025661.D (-1350) (-)

Ion 98.90 (98.60 to 99.60): VU025756.D (-1275) (-)

4.99

80000

60000

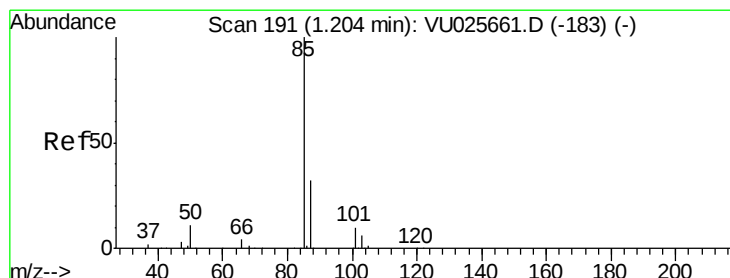
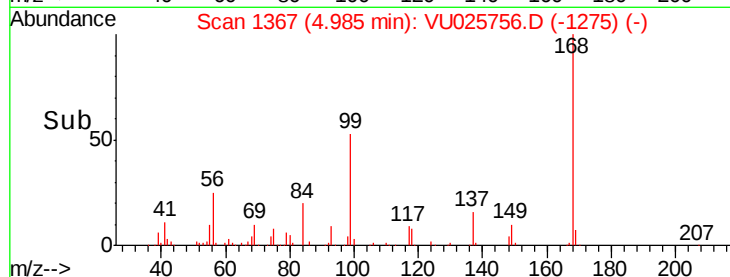
40000

20000

0

4.90 5.00 5.10

Time-->



#2

Dichlorodifluoromethane

Concen: 21.855 ug/l

RT: 1.21 min Scan# 192

Delta R.T. 0.00 min

Lab File: VU025756.D

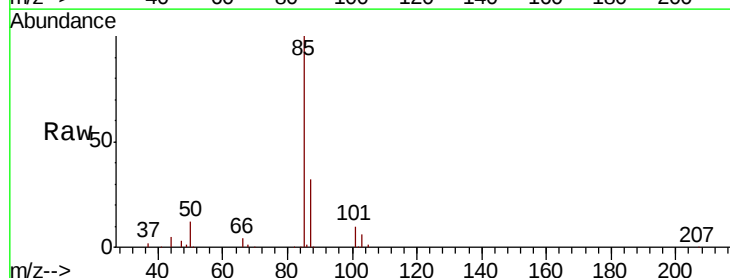
Acq: 31 Jul 2018 22:01

Tgt Ion: 85 Resp: 59651

Ion Ratio Lower Upper

85 100

87 32.3 16.5 49.5



Abundance Ion 84.90 (84.60 to 85.60): VU025661.D (-183) (-)

Ion 86.90 (86.60 to 87.60): VU025756.D (-98) (-)

1.21

60000

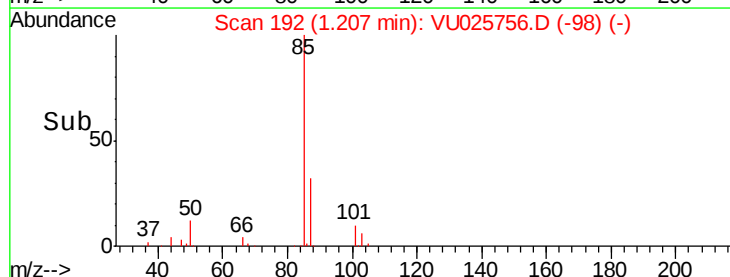
40000

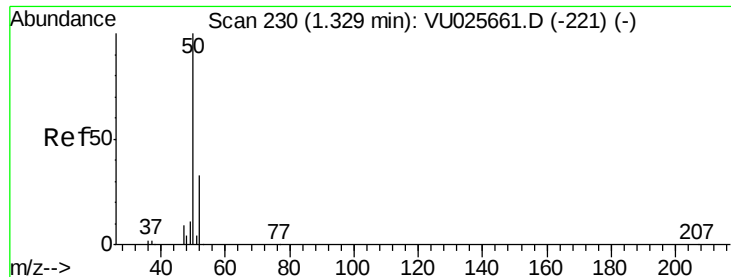
20000

0

1.15 1.20 1.25

Time-->





#3

Chloromethane

Concen: 19.528 ug/l

RT: 1.33 min Scan# 231

Delta R.T. 0.00 min

Lab File: VU025756.D

Acq: 31 Jul 2018 22:01

Instrument :

MSVOA_U

ClientSampleId :

VU0801MBS01

Tot Ion: 50 Resp: 50944

Ion Ratio Lower Upper

50 100

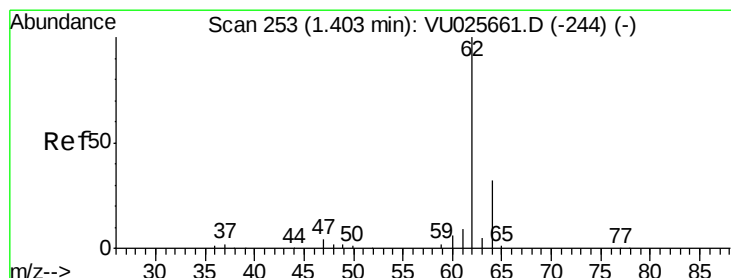
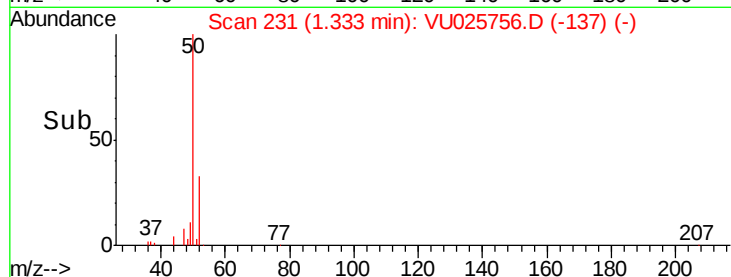
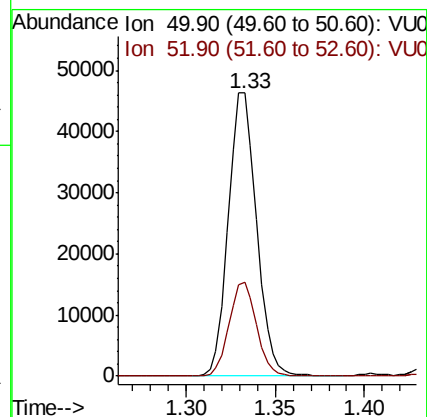
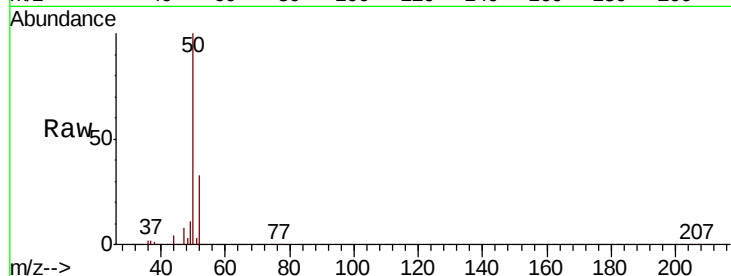
52 33.3 26.5 39.7

Manual Integrations

APPROVED

MMDadoda

8/2/2018 9:41:02 AM



#4

Vinyl Chloride

Concen: 20.785 ug/l

RT: 1.40 min Scan# 253

Delta R.T. 0.00 min

Lab File: VU025756.D

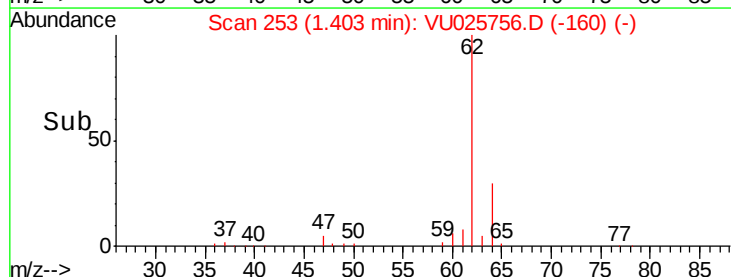
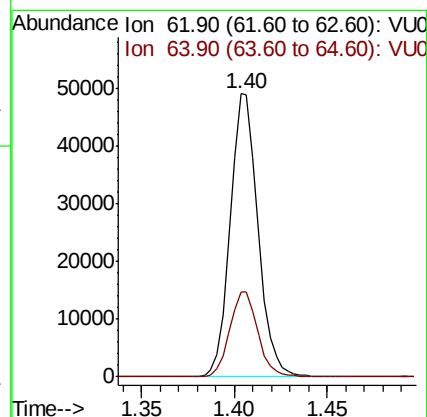
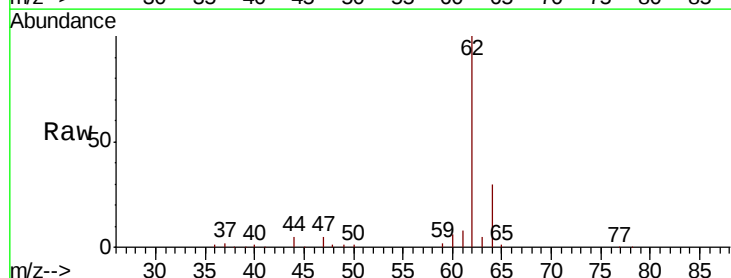
Acq: 31 Jul 2018 22:01

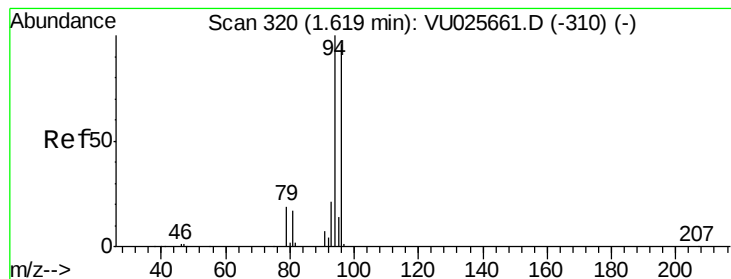
Tgt Ion: 62 Resp: 51026

Ion Ratio Lower Upper

62 100

64 30.2 25.4 38.0





#5

Bromomethane

Concen: 21.409 ug/l

RT: 1.63 min Scan# 323

Delta R.T. 0.01 min

Lab File: VU025756.D

Acq: 31 Jul 2018 22:01

Instrument :

MSVOA_U

ClientSampleId :

VU0801MBSD01

Tot Ion: 94 Resp: 25671

Ion Ratio Lower Upper

94 100

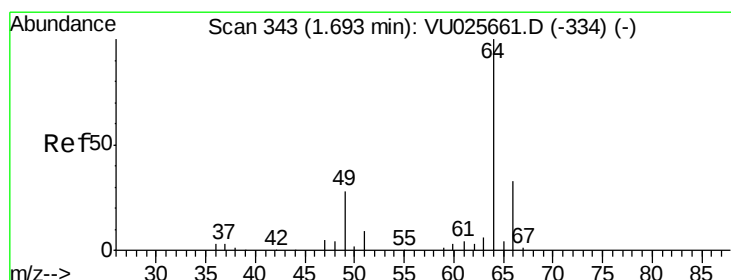
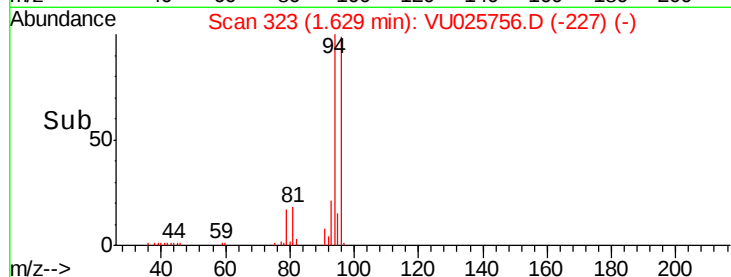
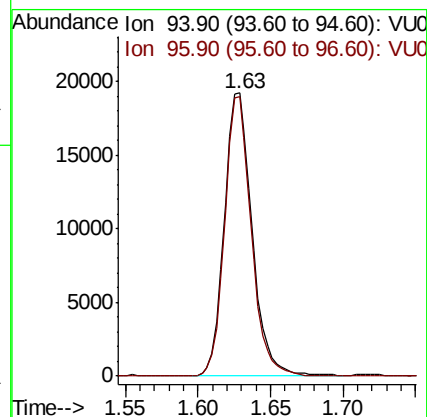
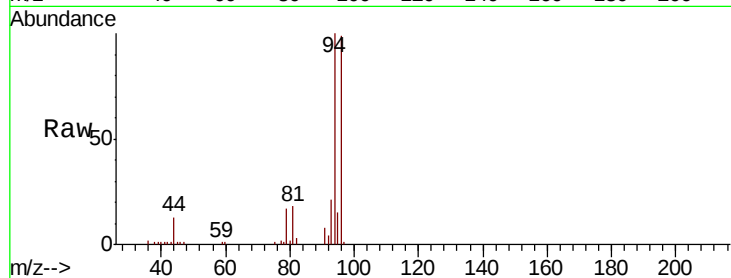
96 98.9 75.0 112.4

Manual Integrations

APPROVED

MMDadoda

8/2/2018 9:41:02 AM



#6

Chloroethane

Concen: 19.523 ug/l

RT: 1.70 min Scan# 345

Delta R.T. 0.01 min

Lab File: VU025756.D

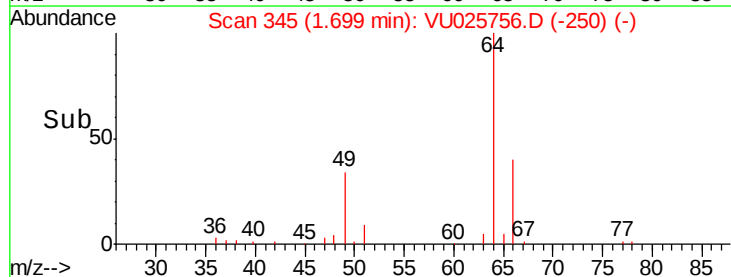
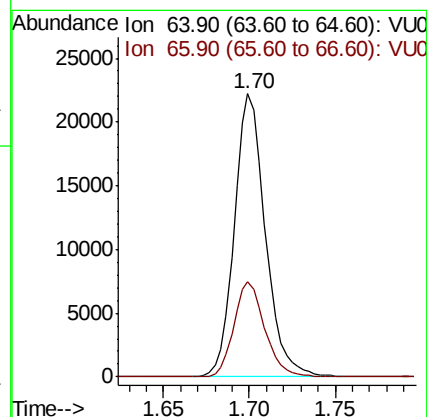
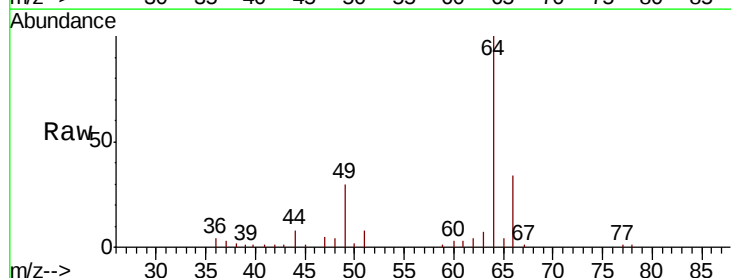
Acq: 31 Jul 2018 22:01

Tgt Ion: 64 Resp: 28026

Ion Ratio Lower Upper

64 100

66 33.5 25.0 37.4





#7

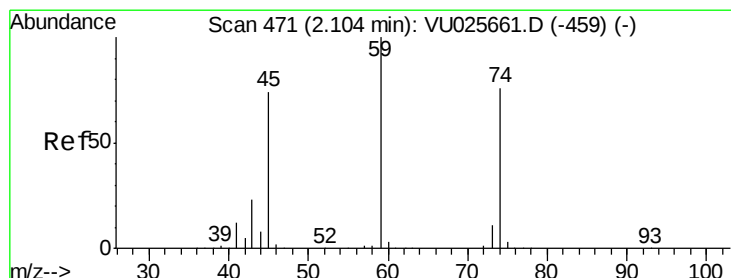
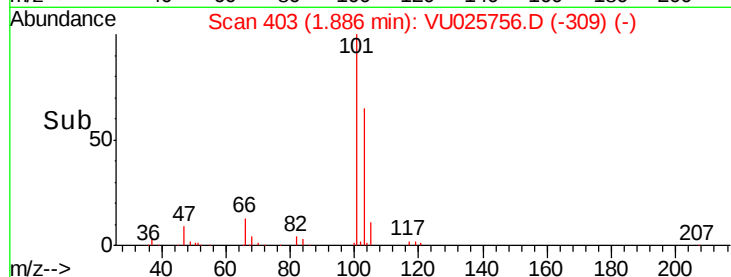
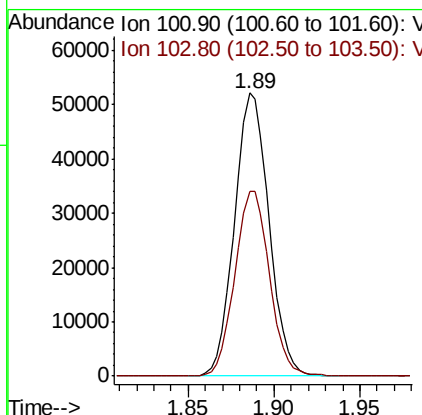
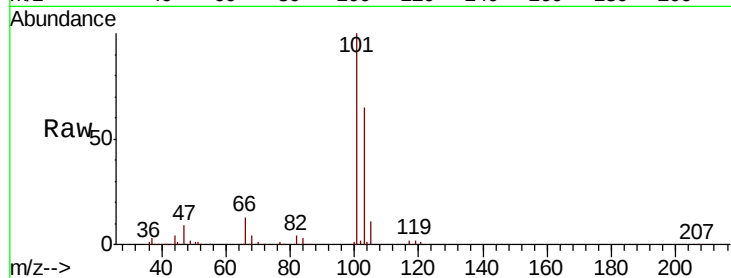
Trichlorofluoromethane
 Concen: 20.454 ug/l
 RT: 1.89 min Scan# 403
 Delta R.T. 0.00 min
 Lab File: VU025756.D
 Acq: 31 Jul 2018 22:01

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0801MBSD01

Tot Ion	Ratio	Lower	Upper
101	100		
103	65.3	52.2	78.2

Manual Integrations
 APPROVED

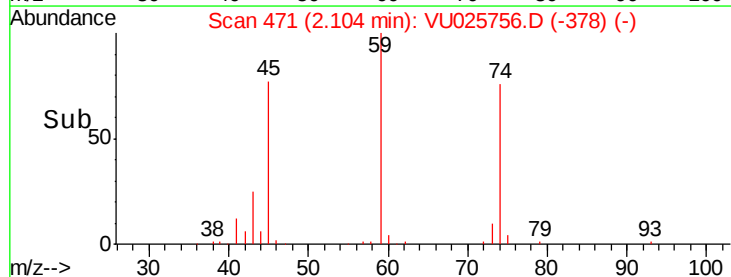
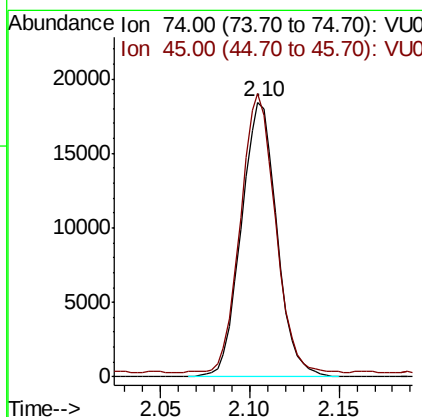
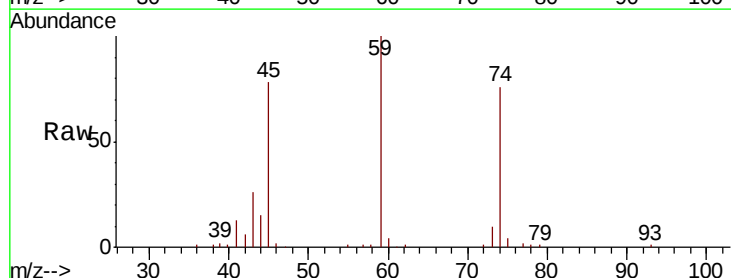
MMDadoda
 8/2/2018 9:41:02 AM

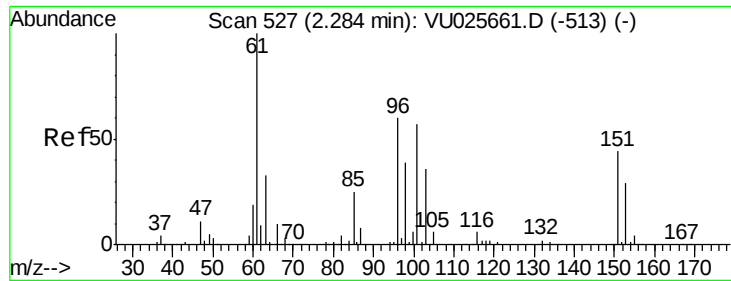


#8

Diethyl Ether
 Concen: 19.895 ug/l
 RT: 2.10 min Scan# 471
 Delta R.T. 0.00 min
 Lab File: VU025756.D
 Acq: 31 Jul 2018 22:01

Tgt Ion	Ratio	Lower	Upper
74	100		
45	99.0	48.3	144.9





#9

1,1,2-Trichlorotrifluoroethane

Concen: 20.200 ug/l

RT: 2.29 min Scan# 528

Delta R.T. 0.00 min

Lab File: VU025756.D

Acq: 31 Jul 2018 22:01

Instrument :

MSVOA_U

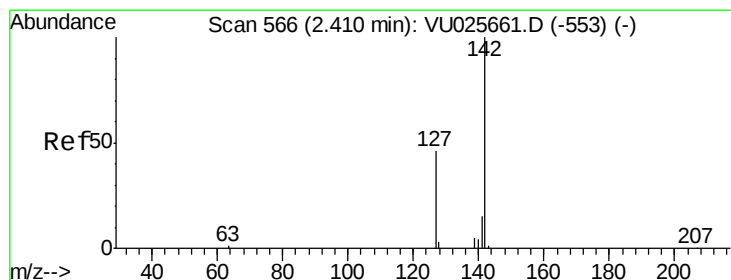
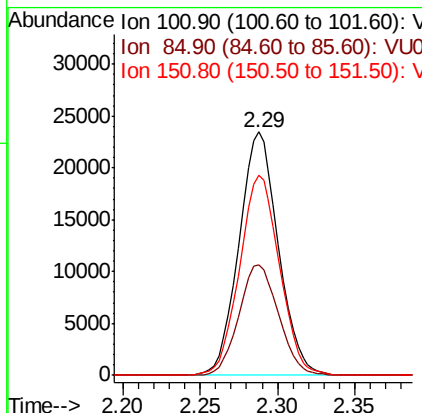
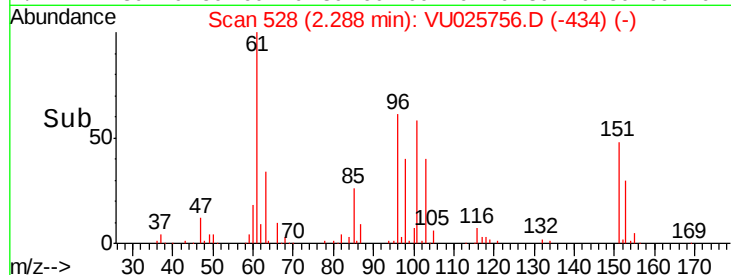
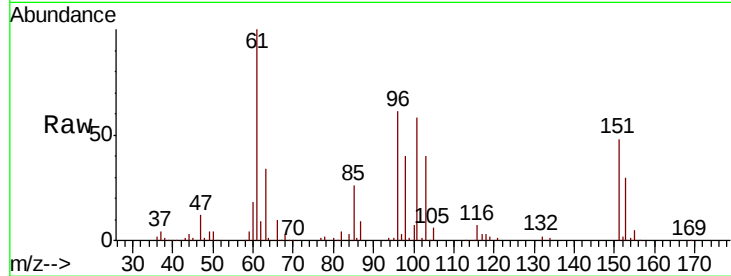
ClientSampleId :

VU0801MBSD01

Tot Ion:	101	Resp:	41493
Ion Ratio	Lower	Upper	
101	100		
85	45.6	36.0	54.0
151	83.2	65.6	98.4

Manual Integrations
APPROVED

MMDadoda
8/2/2018 9:41:02 AM



#10

Methyl Iodide

Concen: 21.588 ug/l

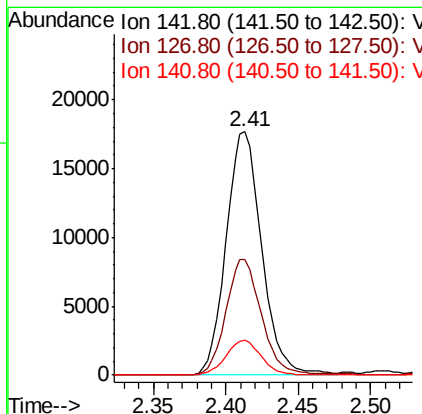
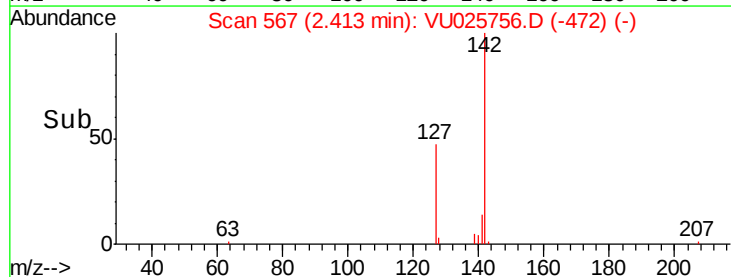
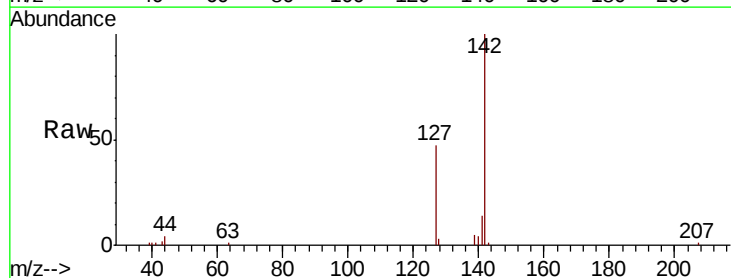
RT: 2.41 min Scan# 567

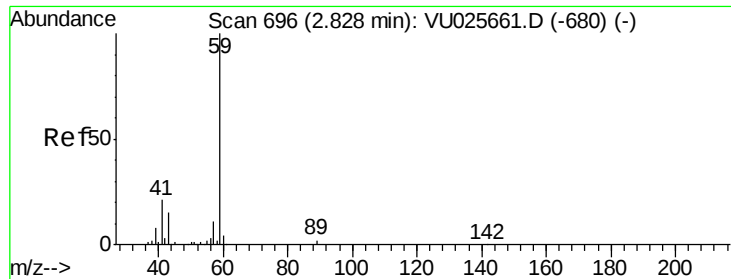
Delta R.T. 0.00 min

Lab File: VU025756.D

Acq: 31 Jul 2018 22:01

Tgt Ion:	142	Resp:	30060
Ion Ratio	Lower	Upper	
142	100		
127	47.4	36.5	54.7
141	14.0	11.4	17.2





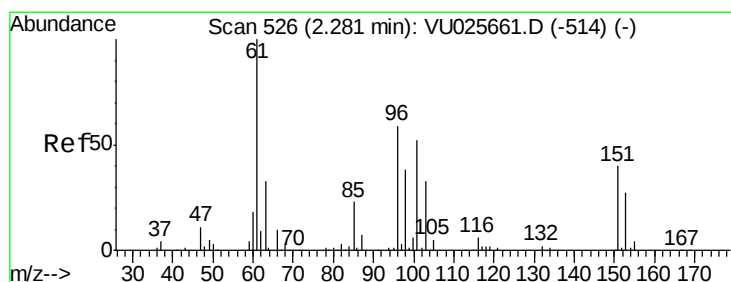
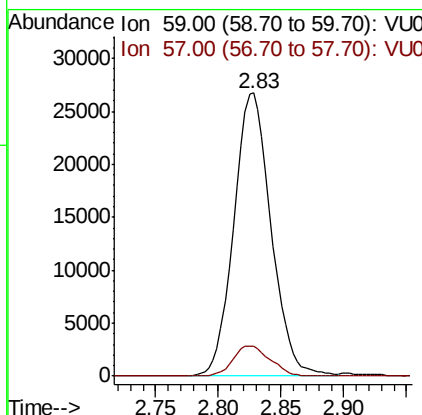
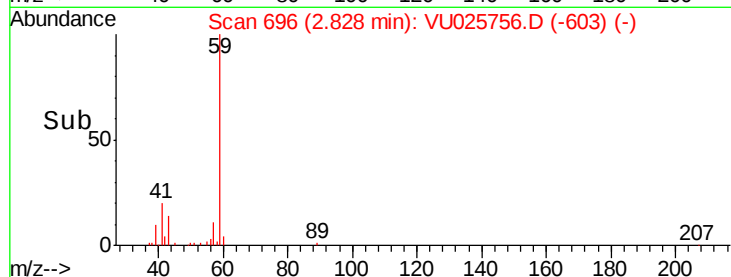
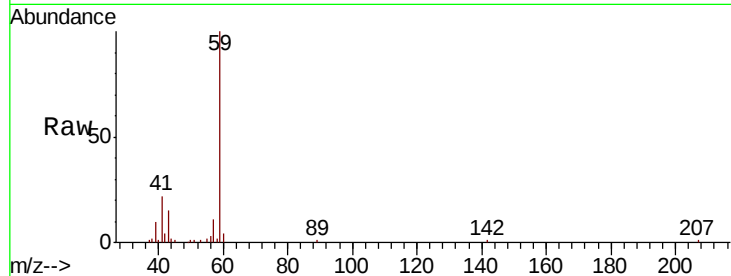
#11
Tert butyl alcohol
Concen: 89.762 ug/l
RT: 2.83 min Scan# 696
Delta R.T. 0.00 min
Lab File: VU025756.D
Acq: 31 Jul 2018 22:01

Instrument :
MSVOA_U
ClientSampleId :
VU0801MBSD01

Tot Ion	Ratio	Lower	Upper
59	100		
57	10.5	8.2	12.2

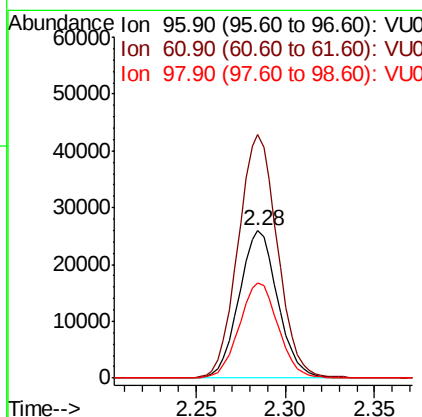
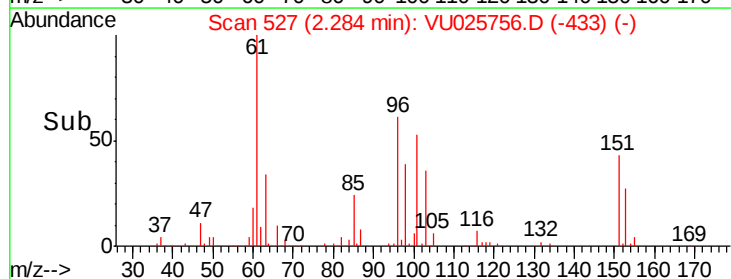
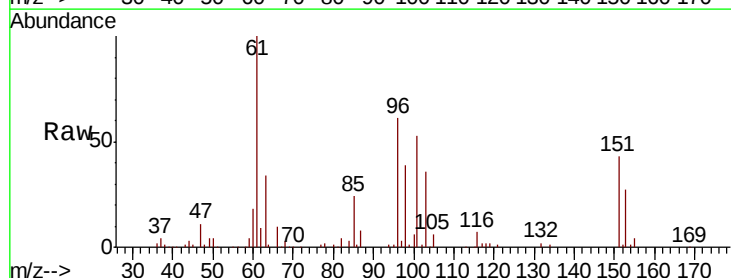
Manual Integrations
APPROVED

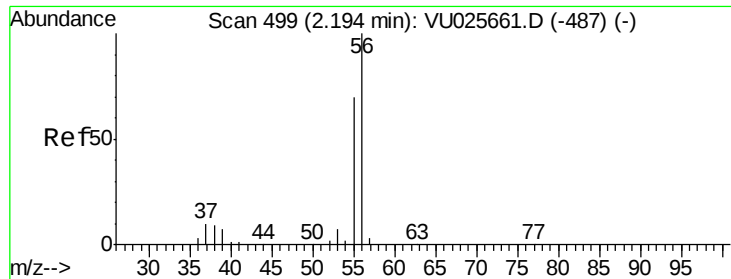
MMDadoda
8/2/2018 9:41:02 AM



#12
1,1-Dichloroethene
Concen: 20.299 ug/l
RT: 2.28 min Scan# 527
Delta R.T. 0.00 min
Lab File: VU025756.D
Acq: 31 Jul 2018 22:01

Tgt Ion	Ratio	Lower	Upper
96	100		
61	165.0	140.2	210.4
98	64.9	49.3	73.9





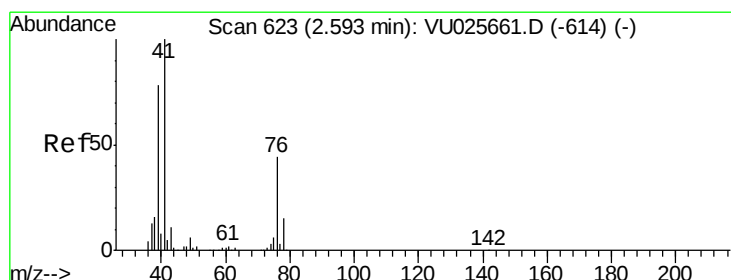
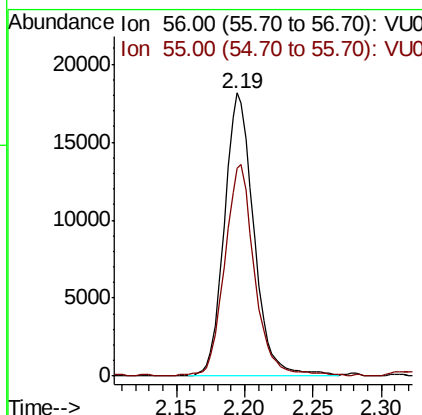
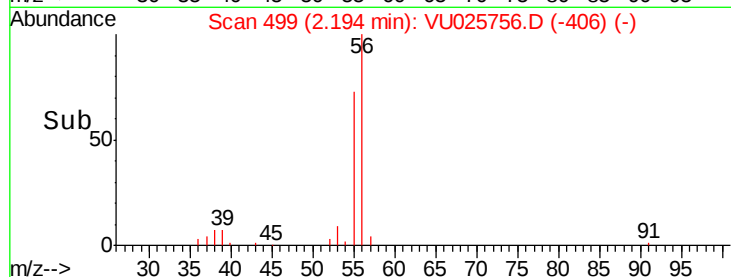
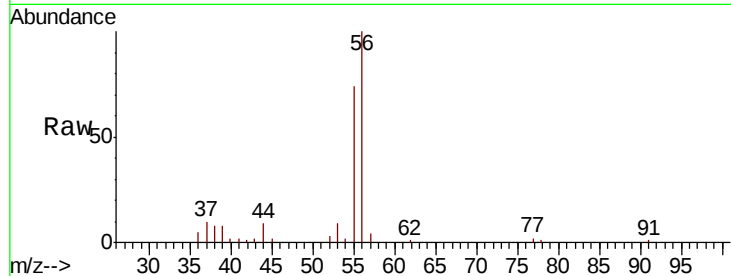
#13
Acrolein
Concen: 121.382 ug/l
RT: 2.19 min Scan# 499
Delta R.T. 0.00 min
Lab File: VU025756.D
Acq: 31 Jul 2018 22:01

Instrument :
MSVOA_U
ClientSampleId :
VU0801MBSD01

Tot Ion	56	55	Resp	Lower	Upper
27313	100	76.2		57.2	85.8

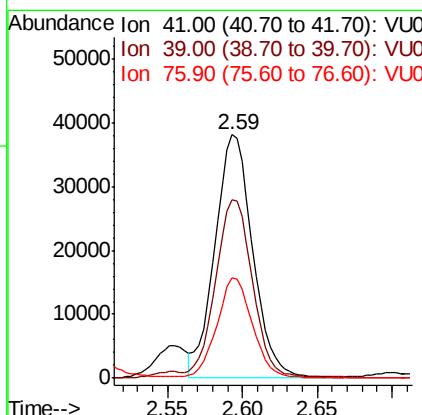
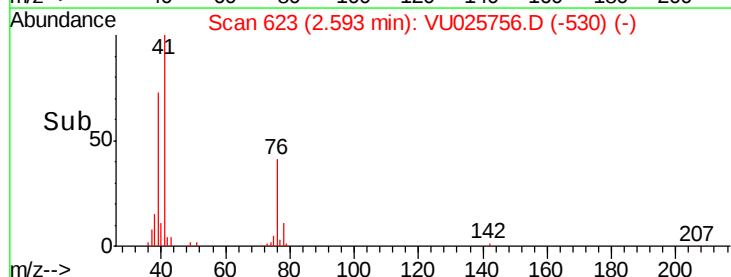
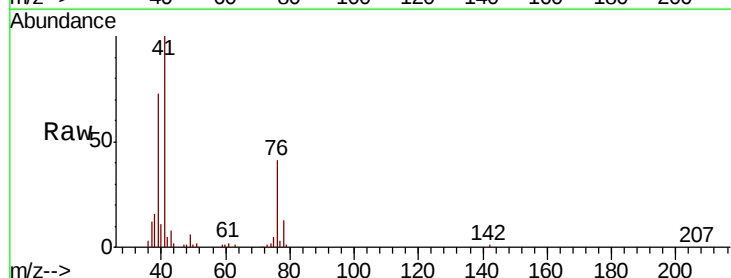
Manual Integrations
APPROVED

MMDadoda
8/2/2018 9:41:02 AM



#14
Allyl chloride
Concen: 19.151 ug/l
RT: 2.59 min Scan# 623
Delta R.T. 0.00 min
Lab File: VU025756.D
Acq: 31 Jul 2018 22:01

Tgt Ion	41	39	76	Resp	Lower	Upper
66732	100	71.5	39.2		60.6	91.0
					30.5	45.7





#15

Acrylonitrile

Concen: 103.538 ug/l

RT: 2.94 min Scan# 730

Delta R.T. 0.00 min

Lab File: VU025756.D

Acq: 31 Jul 2018 22:01

Instrument :

MSVOA_U

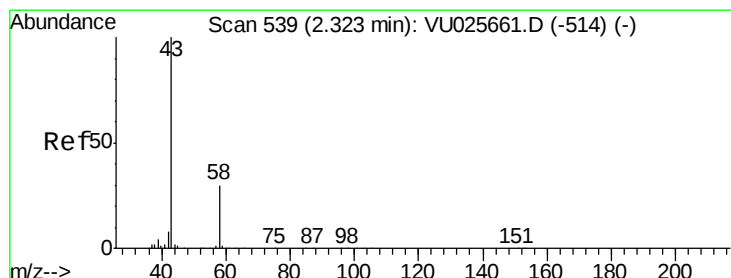
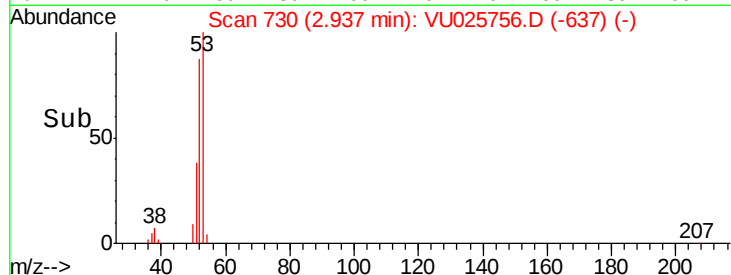
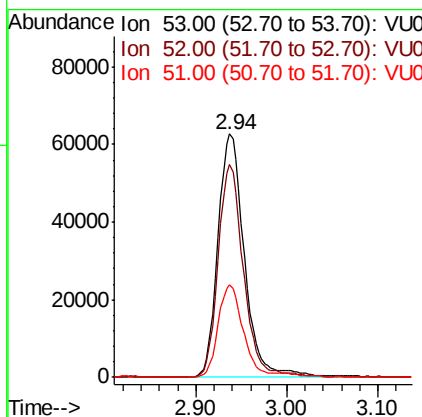
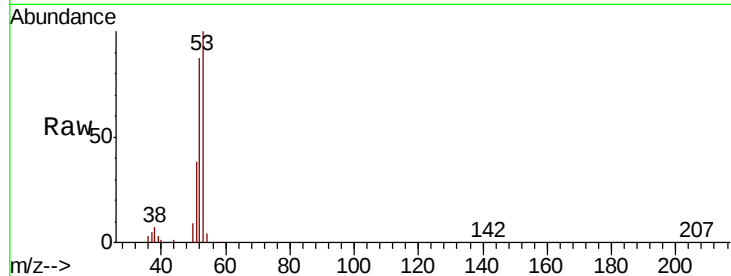
ClientSampleId :

VU0801MBSD01

Tot Ion	53	Resp	127345
Ion	Ratio	Lower	Upper
53	100		
52	83.8	66.6	99.8
51	35.6	29.4	44.2

Manual Integrations
APPROVED

MMDadoda
8/2/2018 9:41:02 AM



#16

Acetone

Concen: 83.390 ug/l

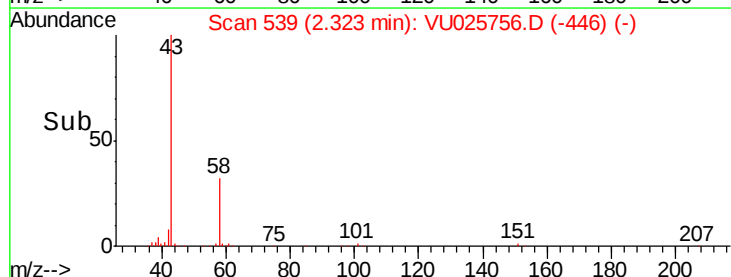
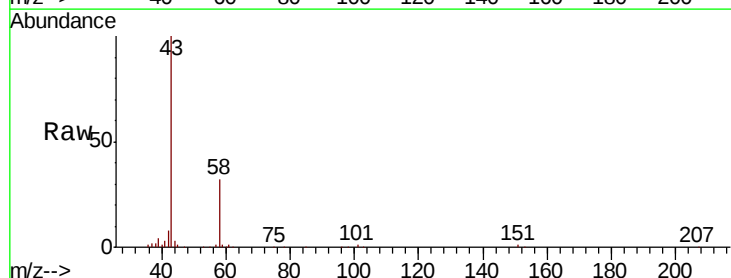
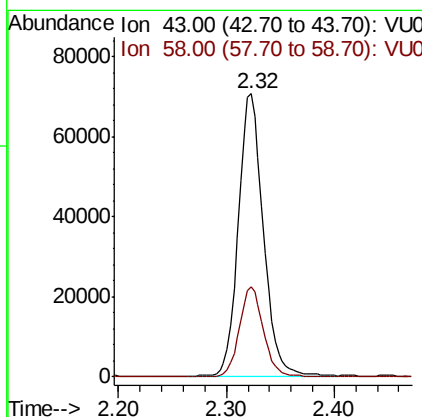
RT: 2.32 min Scan# 539

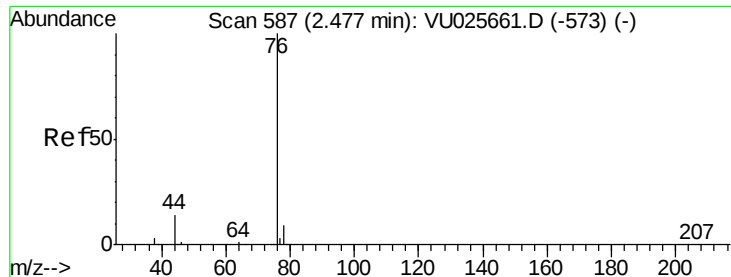
Delta R.T. 0.00 min

Lab File: VU025756.D

Acq: 31 Jul 2018 22:01

Tgt Ion	43	Resp	114393
Ion	Ratio	Lower	Upper
43	100		
58	31.7	23.1	34.7





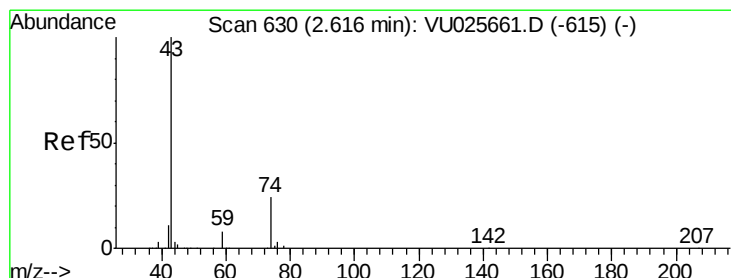
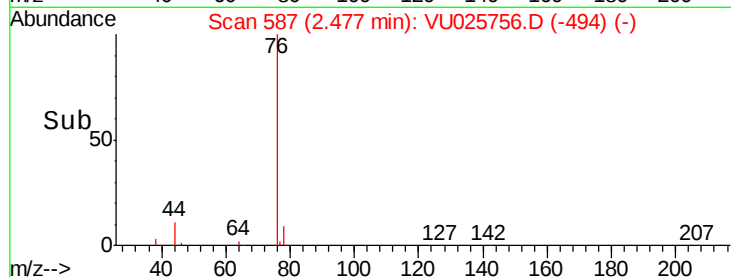
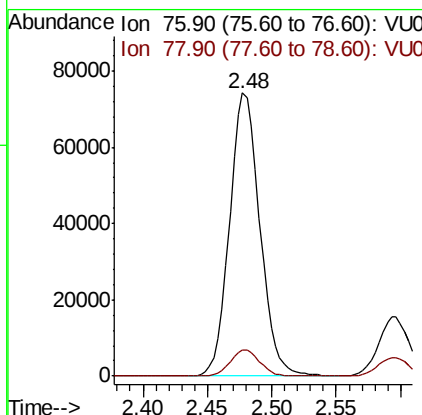
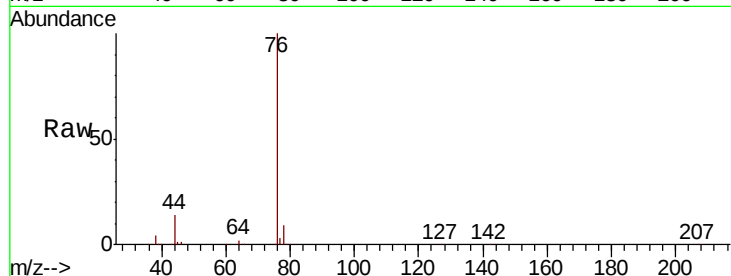
#17
Carbon Disulfide
Concen: 19.351 ug/l
RT: 2.48 min Scan# 587
Delta R.T. 0.00 min
Lab File: VU025756.D
Acq: 31 Jul 2018 22:01

Instrument :
MSVOA_U
ClientSampleId :
VU0801MBSD01

Tot Ion	Ratio	Lower	Upper
76	100		
78	9.3	7.4	11.2

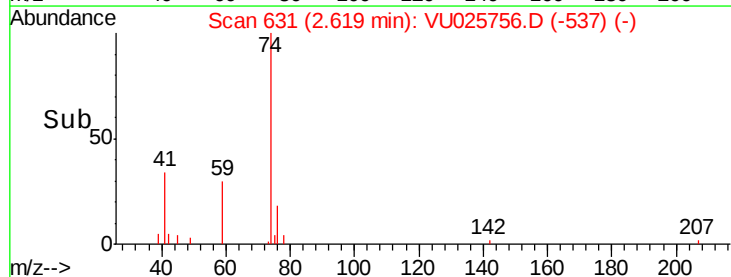
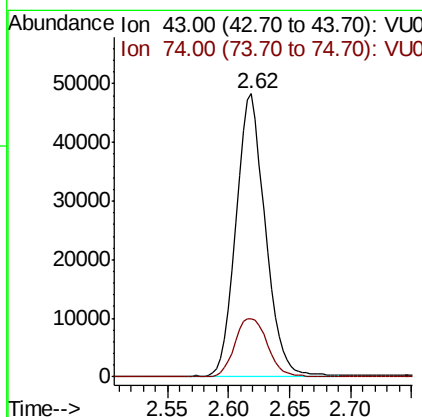
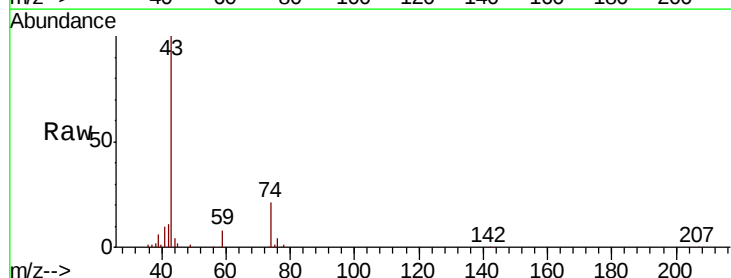
Manual Integrations
APPROVED

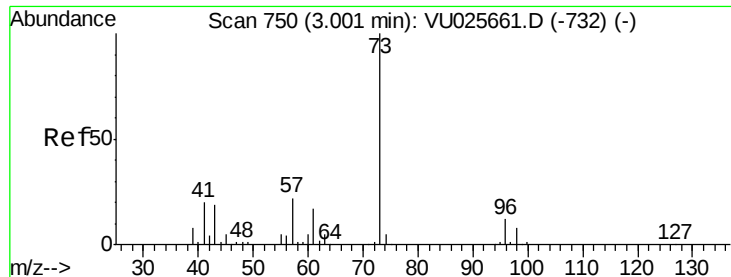
MMDadoda
8/2/2018 9:41:02 AM



#18
Methyl Acetate
Concen: 24.137 ug/l
RT: 2.62 min Scan# 631
Delta R.T. 0.00 min
Lab File: VU025756.D
Acq: 31 Jul 2018 22:01

Tgt Ion	Ratio	Lower	Upper
43	100		
74	23.2	18.5	27.7





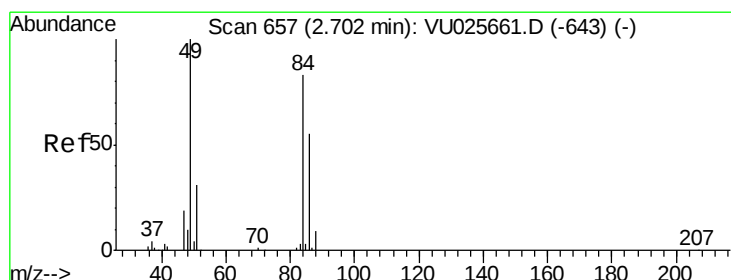
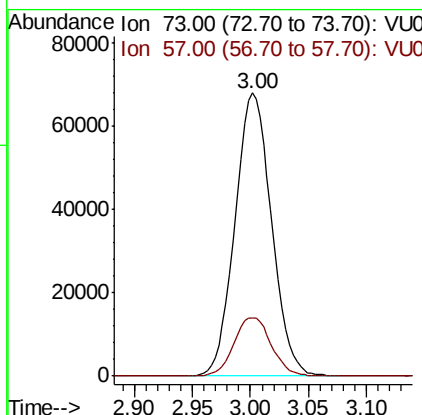
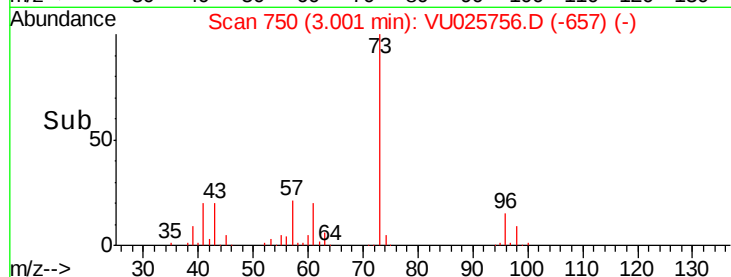
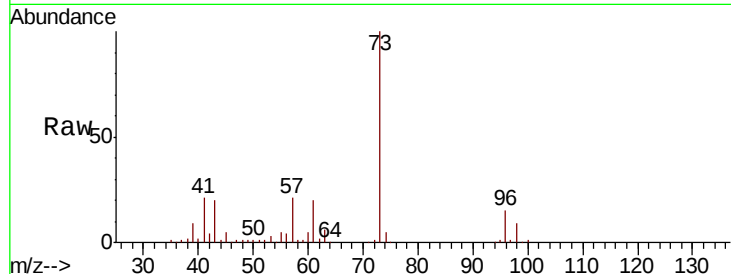
#19
Methyl tert-butyl Ether
Concen: 21.094 ug/l
RT: 3.00 min Scan# 750
Delta R.T. 0.00 min
Lab File: VU025756.D
Acq: 31 Jul 2018 22:01

Instrument :
MSVOA_U
ClientSampleId :
VU0801MBSD01

Tot Ion	Ratio	Lower	Upper
73	100		
57	20.8	17.4	26.2

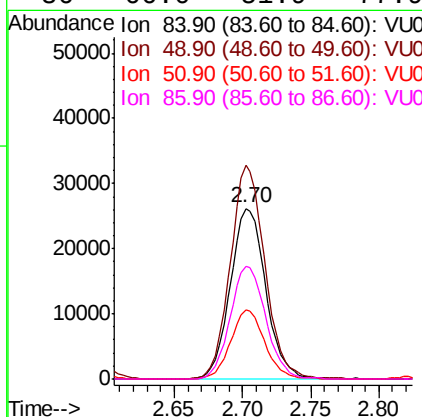
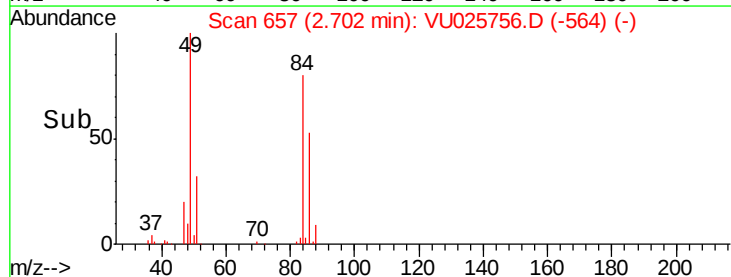
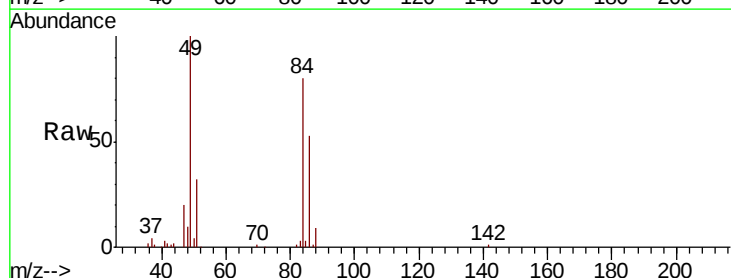
Manual Integrations
APPROVED

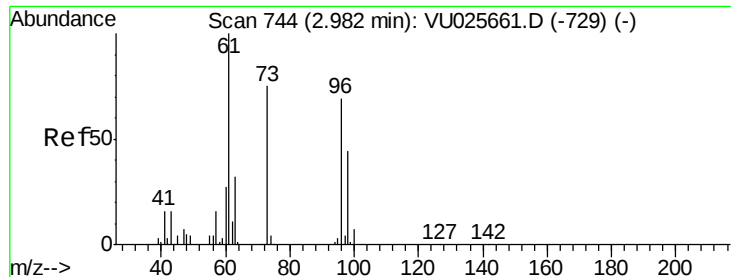
MMDadoda
8/2/2018 9:41:02 AM



#20
Methylene Chloride
Concen: 19.437 ug/l
RT: 2.70 min Scan# 657
Delta R.T. 0.00 min
Lab File: VU025756.D
Acq: 31 Jul 2018 22:01

Tgt Ion	Ratio	Lower	Upper
84	100		
49	125.3	101.8	152.6
51	40.4	30.8	46.2
86	66.0	51.9	77.9





#21

trans-1,2-Dichloroethene

Concen: 20.698 ug/l

RT: 2.99 min Scan# 745

Delta R.T. 0.00 min

Lab File: VU025756.D

Acq: 31 Jul 2018 22:01

Instrument :

MSVOA_U

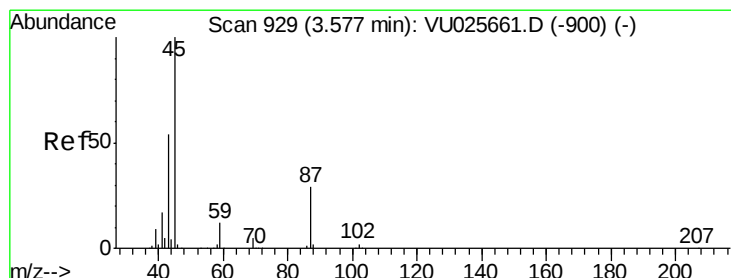
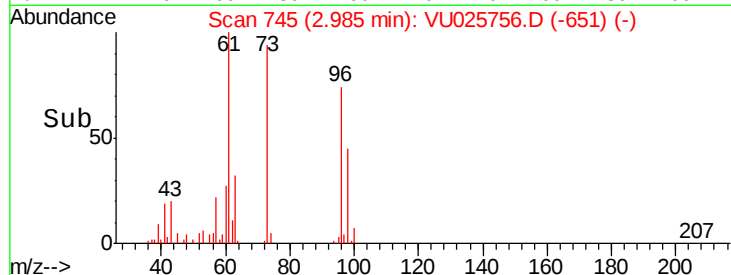
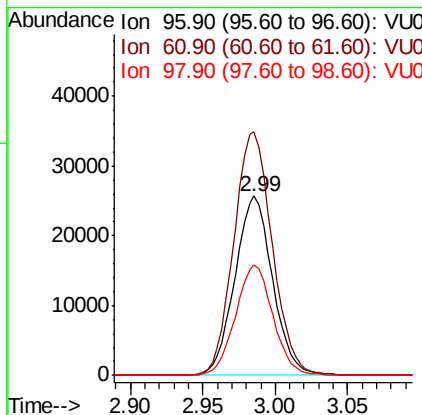
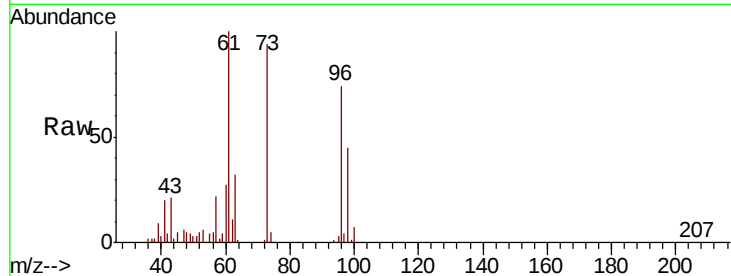
ClientSampleId :

VU0801MBSD01

Tot Ion:	96	Resp:	46392
Ion	Ratio	Lower	Upper
96	100		
61	135.8	114.5	171.7
98	61.6	50.5	75.7

Manual Integrations
APPROVED

MMDadoda
8/2/2018 9:41:02 AM



#22

Diisopropyl ether

Concen: 20.935 ug/l

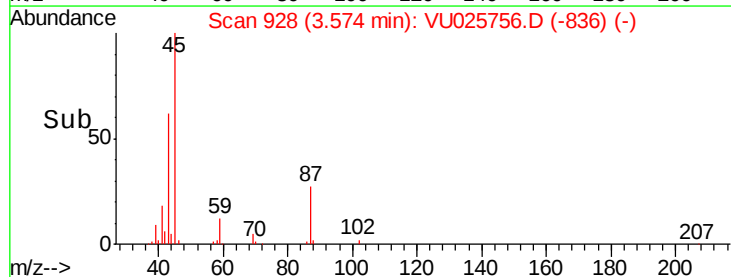
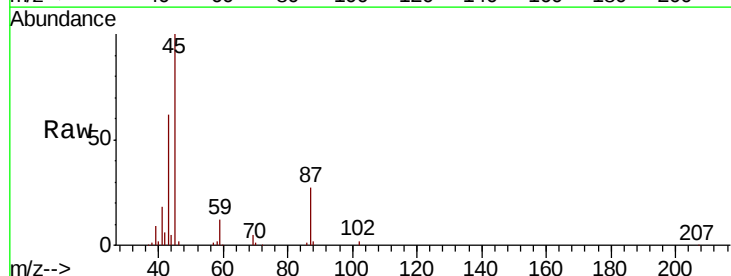
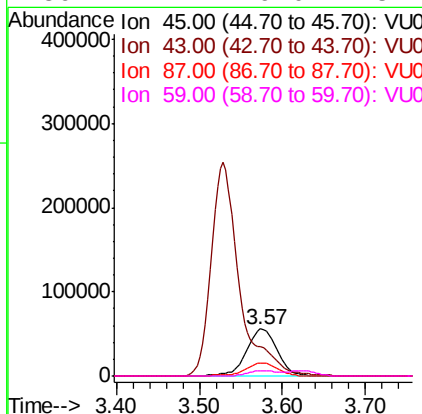
RT: 3.57 min Scan# 928

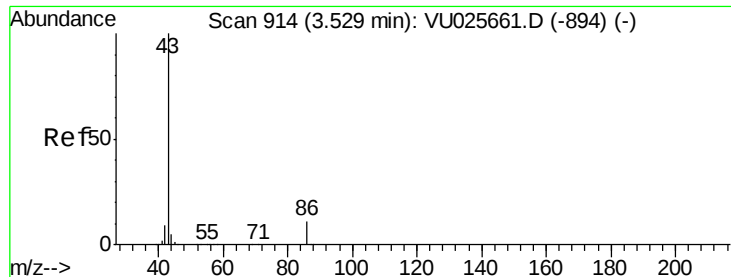
Delta R.T. -0.00 min

Lab File: VU025756.D

Acq: 31 Jul 2018 22:01

Tgt Ion:	45	Resp:	143748
Ion	Ratio	Lower	Upper
45	100		
43	61.0	50.9	76.3
87	27.2	23.8	35.8
59	11.7	9.0	13.4





#23

Vinyl Acetate

Concen: 100.882 ug/l

RT: 3.53 min Scan# 914

Delta R.T. 0.00 min

Lab File: VU025756.D

Acq: 31 Jul 2018 22:01

Instrument :

MSVOA_U

ClientSampleId :

VU0801MBSD01

Tot Ion: 43 Resp: 603665

Ion Ratio Lower Upper

43 100

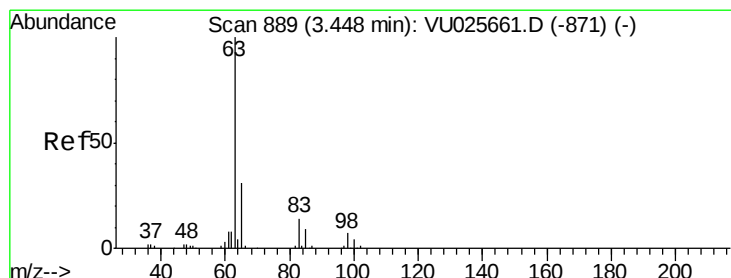
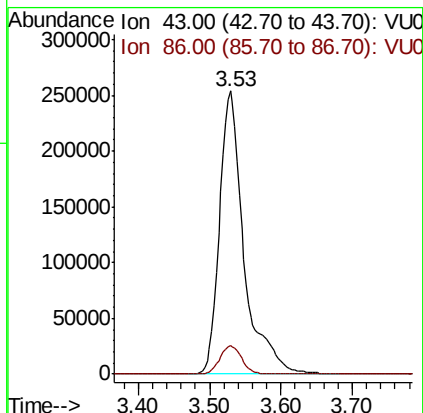
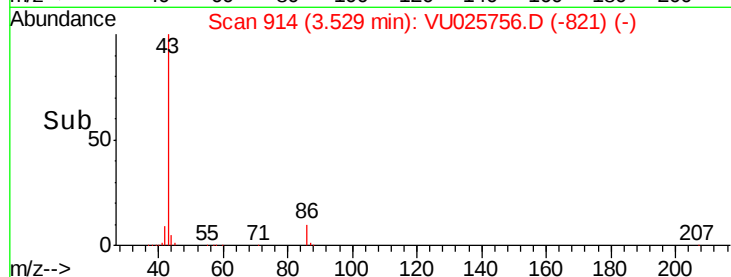
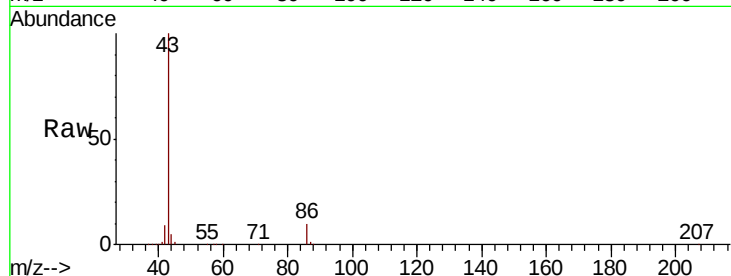
86 10.1 8.2 12.2

Manual Integrations

APPROVED

MMDadoda

8/2/2018 9:41:02 AM



#24

1,1-Dichloroethane

Concen: 21.193 ug/l

RT: 3.45 min Scan# 889

Delta R.T. 0.00 min

Lab File: VU025756.D

Acq: 31 Jul 2018 22:01

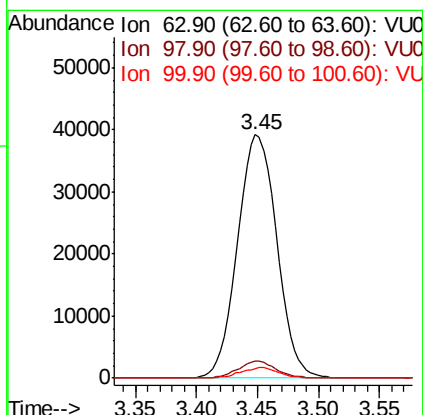
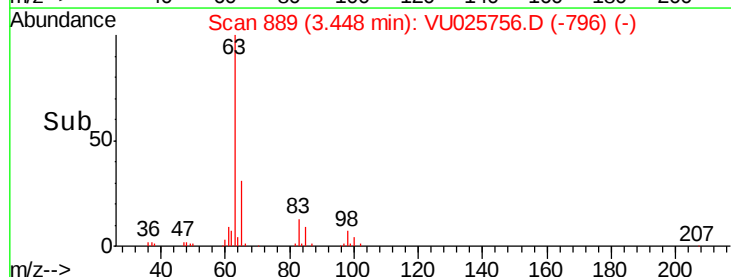
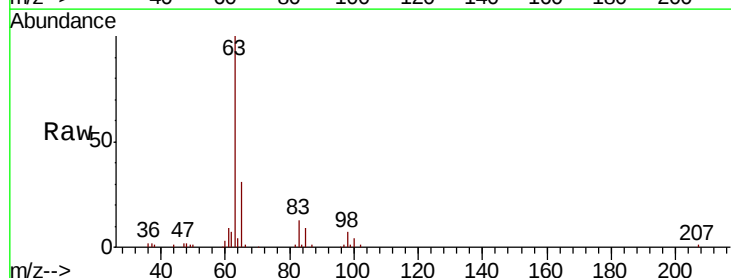
Tgt Ion: 63 Resp: 87351

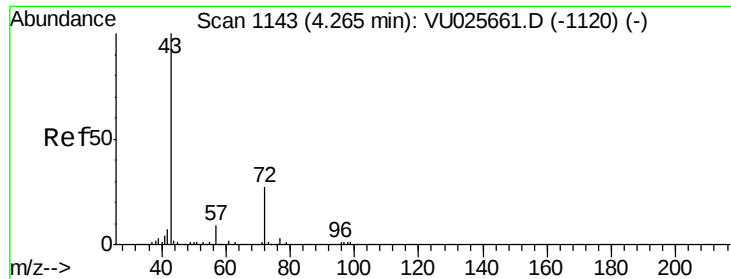
Ion Ratio Lower Upper

63 100

98 7.1 3.4 10.1

100 4.0 2.0 6.0





#25

2-Butanone

Concen: 96.766 ug/l

RT: 4.27 min Scan# 1143

Delta R.T. 0.00 min

Lab File: VU025756.D

Acq: 31 Jul 2018 22:01

Instrument :

MSVOA_U

ClientSampleId :

VU0801MBSD01

Tot Ion: 43 Resp: 180698

Ion Ratio Lower Upper

43 100

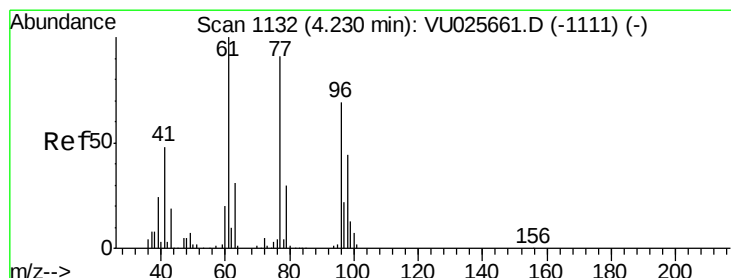
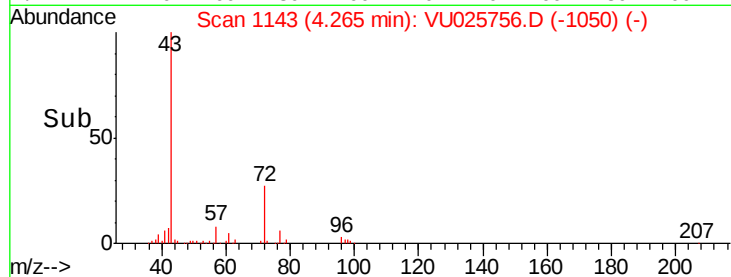
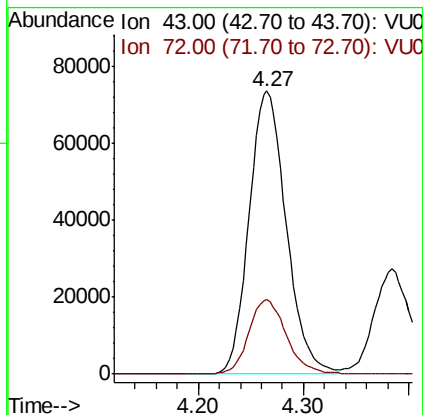
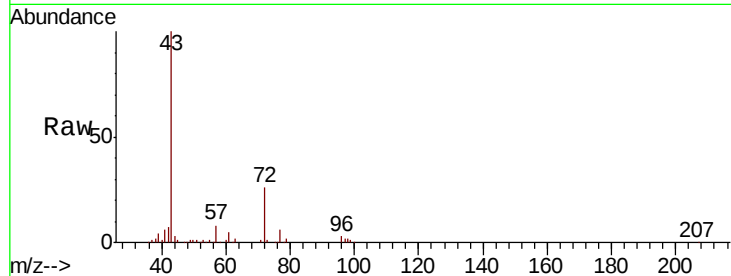
72 26.5 21.0 31.4

Manual Integrations

APPROVED

MMDadoda

8/2/2018 9:41:02 AM



#26

2,2-Dichloropropane

Concen: 17.155 ug/l

RT: 4.23 min Scan# 1133

Delta R.T. 0.00 min

Lab File: VU025756.D

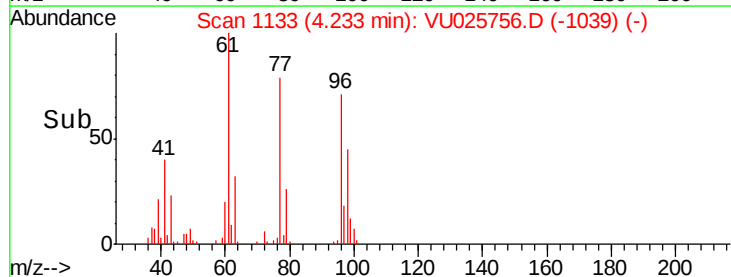
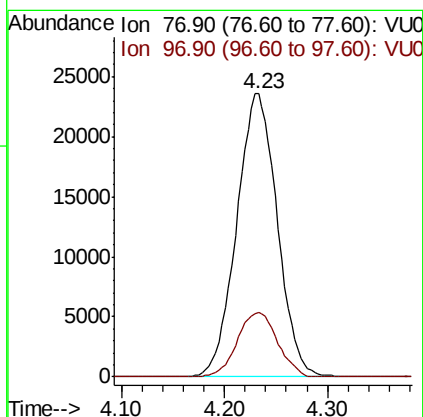
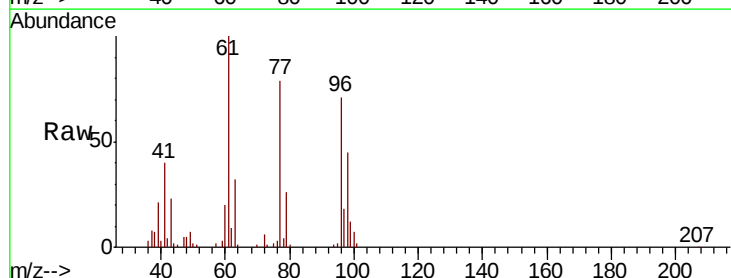
Acq: 31 Jul 2018 22:01

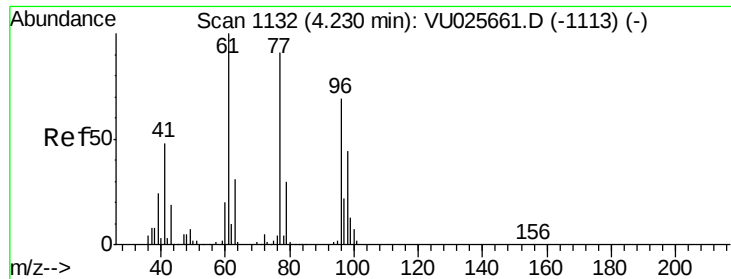
Tgt Ion: 77 Resp: 64271

Ion Ratio Lower Upper

77 100

97 22.6 11.2 33.5





#27

cis-1,2-Dichloroethene

Concen: 20.208 ug/l

RT: 4.23 min Scan# 1133

Delta R.T. 0.00 min

Lab File: VU025756.D

Acq: 31 Jul 2018 22:01

Instrument :

MSVOA_U

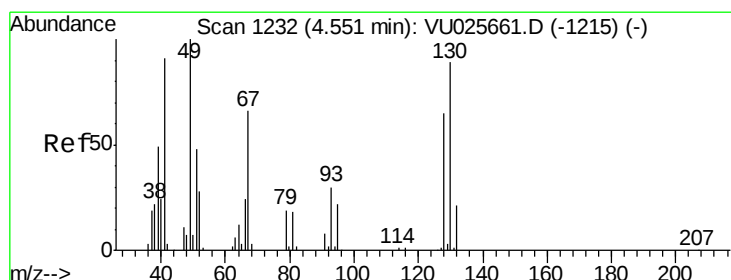
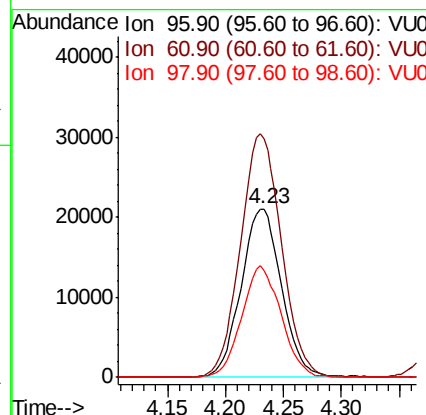
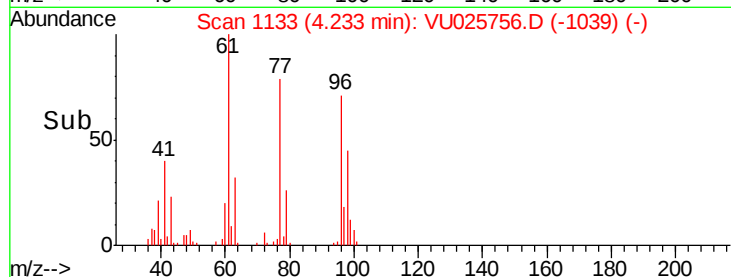
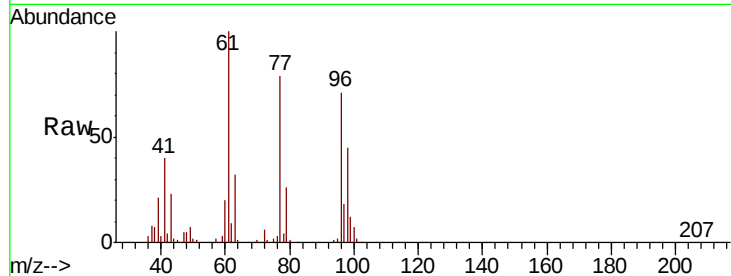
ClientSampleId :

VU0801MBSD01

Tot Ion:	96	Resp:	51065
Ion	Ratio	Lower	Upper
96	100		
61	146.9	0.0	299.8
98	64.4	0.0	128.6

Manual Integrations
APPROVED

MMDadoda
8/2/2018 9:41:02 AM



#28

Bromochloromethane

Concen: 21.707 ug/l

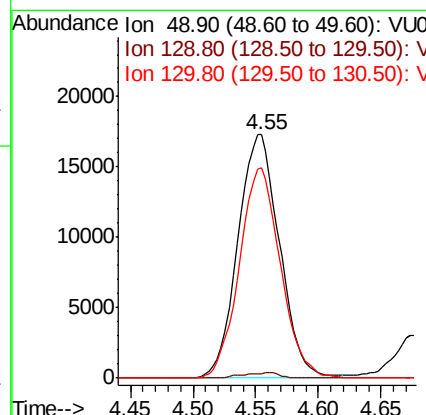
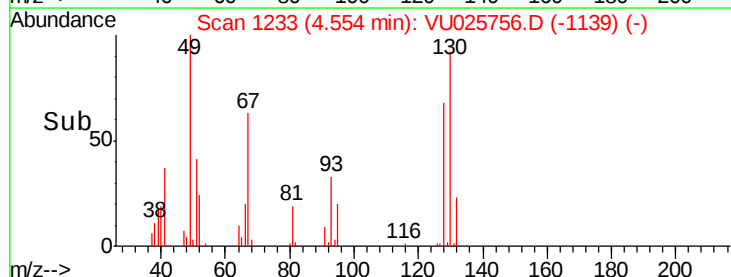
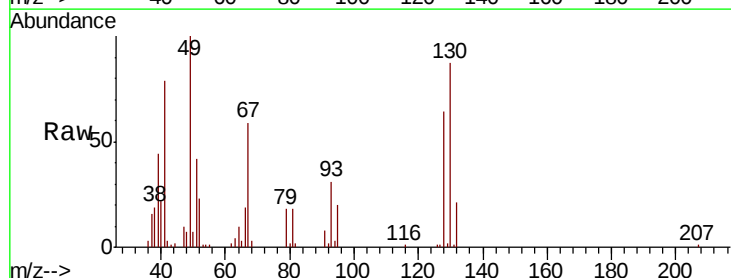
RT: 4.55 min Scan# 1233

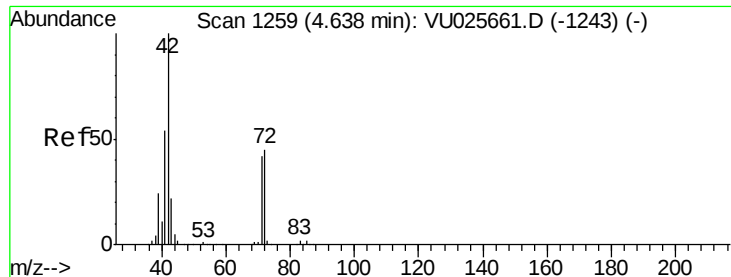
Delta R.T. 0.00 min

Lab File: VU025756.D

Acq: 31 Jul 2018 22:01

Tgt Ion:	49	Resp:	40004
Ion	Ratio	Lower	Upper
49	100		
129	1.8	0.0	4.6
130	85.0	68.6	102.8





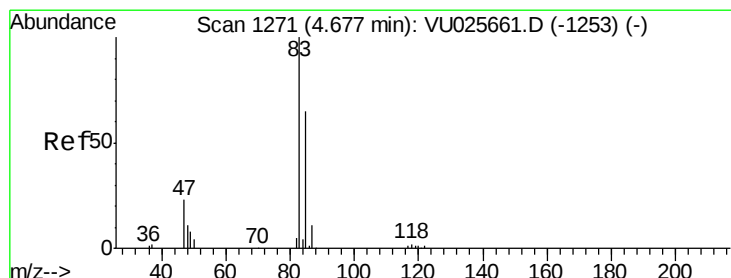
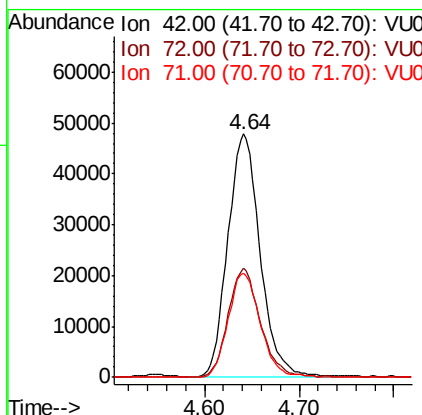
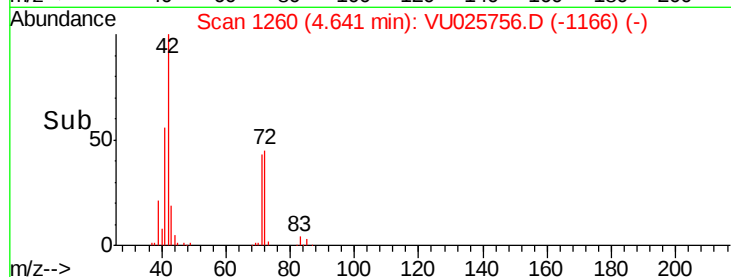
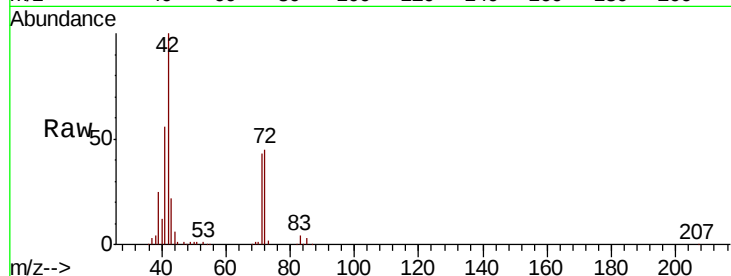
#29
Tetrahydrofuran
Concen: 100.975 ug/l
RT: 4.64 min Scan# 1260
Delta R.T. 0.00 min
Lab File: VU025756.D
Acq: 31 Jul 2018 22:01

Instrument :
MSVOA_U
ClientSampleId :
VU0801MBSD01

Tot Ion	Ratio	Lower	Upper
42	100		
72	45.0	36.7	55.1
71	42.9	33.9	50.9

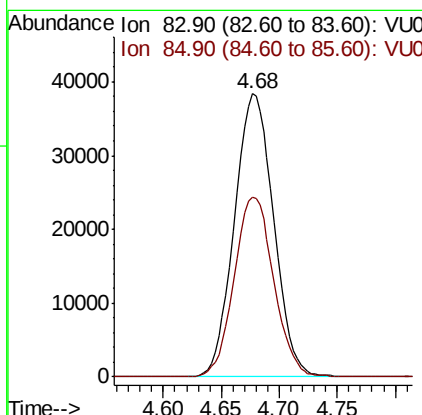
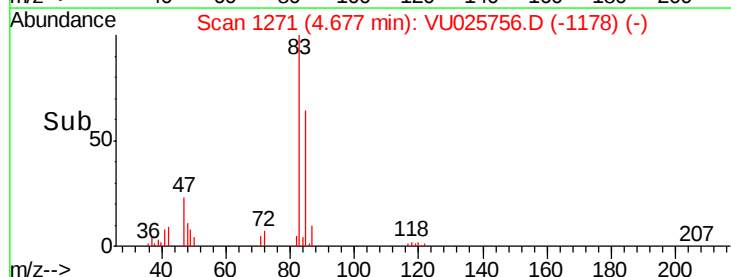
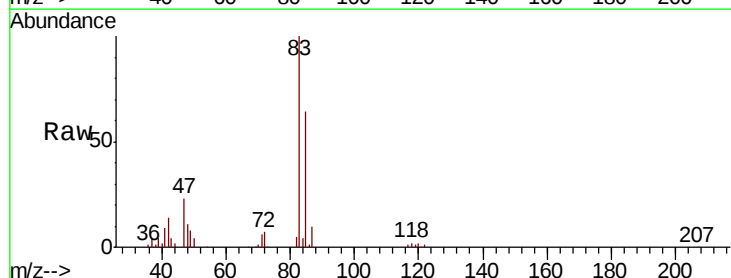
Manual Integrations
APPROVED

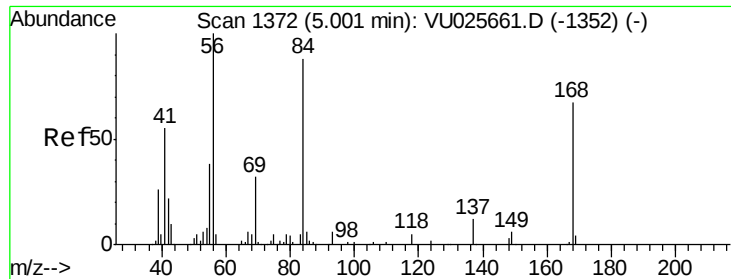
MMDadoda
8/2/2018 9:41:02 AM



#30
Chloroform
Concen: 20.732 ug/l
RT: 4.68 min Scan# 1271
Delta R.T. 0.00 min
Lab File: VU025756.D
Acq: 31 Jul 2018 22:01

Tgt Ion	Ratio	Lower	Upper
83	100		
85	63.7	51.5	77.3





#31

Cyclohexane

Concen: 19.811 ug/l

RT: 5.00 min Scan# 1371

Delta R.T. -0.00 min

Lab File: VU025756.D

Acq: 31 Jul 2018 22:01

Instrument :

MSVOA_U

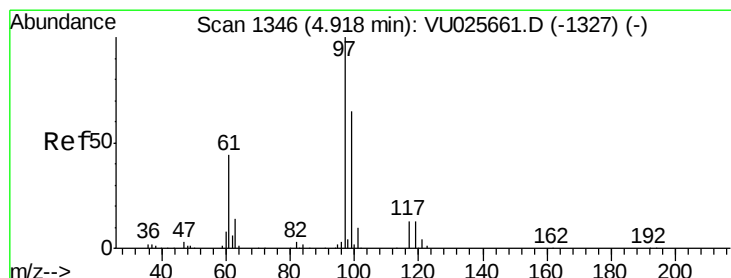
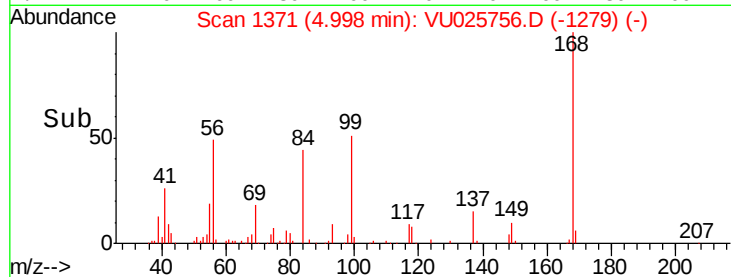
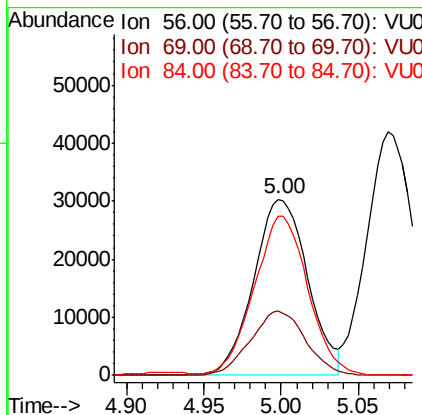
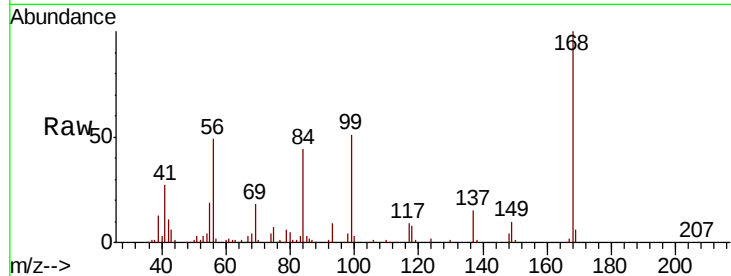
ClientSampleId :

VU0801MBSD01

Tot Ion:	56	Resp:	73961
Ion Ratio	Lower	Upper	
56	100		
69	36.6	26.8	40.2
84	89.7	69.7	104.5

Manual Integrations
APPROVED

MMDadoda
8/2/2018 9:41:02 AM



#32

1,1,1-Trichloroethane

Concen: 21.203 ug/l

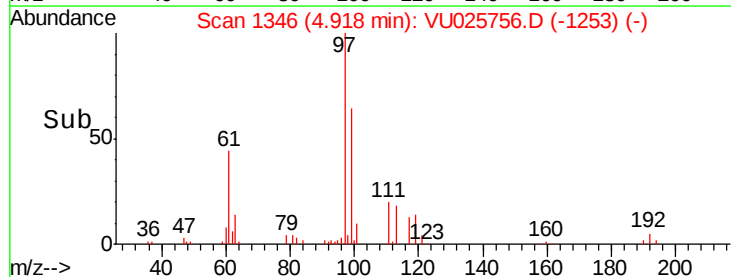
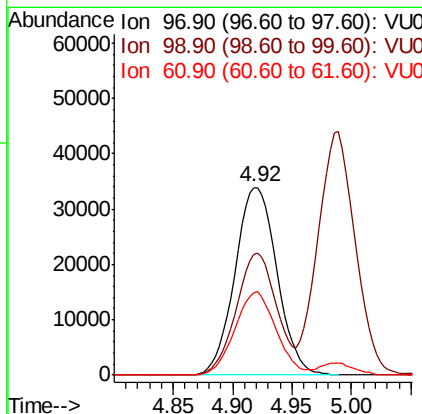
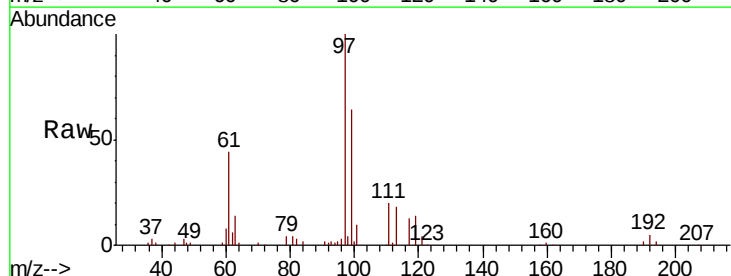
RT: 4.92 min Scan# 1346

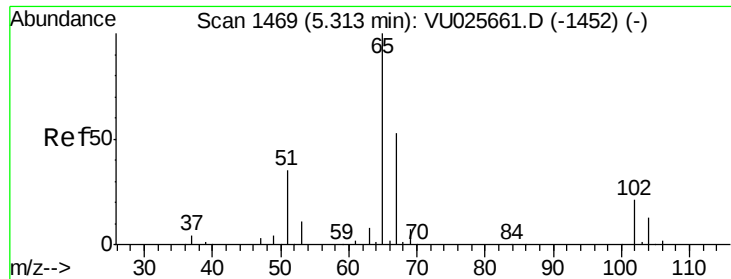
Delta R.T. 0.00 min

Lab File: VU025756.D

Acq: 31 Jul 2018 22:01

Tgt Ion:	97	Resp:	83053
Ion Ratio	Lower	Upper	
97	100		
99	63.1	50.8	76.2
61	43.7	35.2	52.8





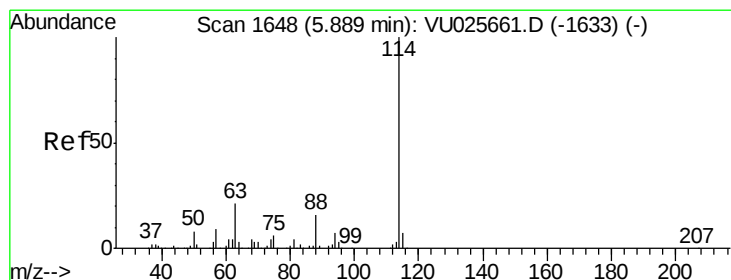
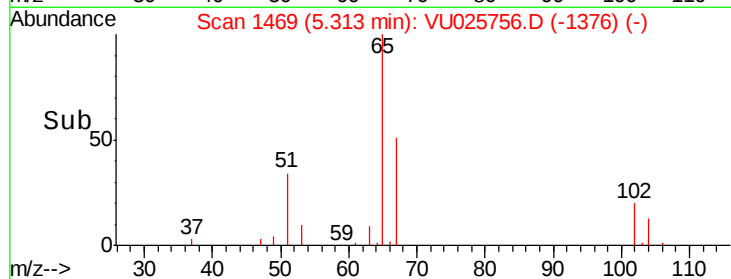
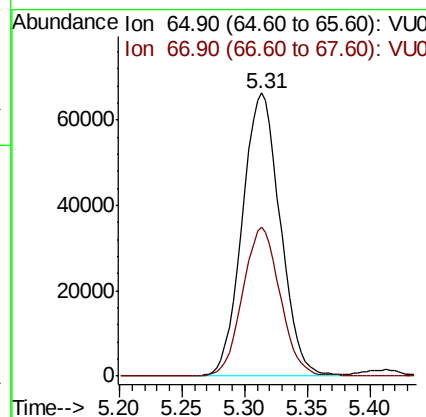
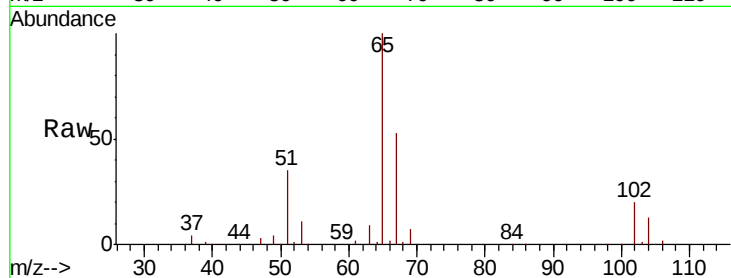
#33
 1,2-Dichloroethane-d4
 Concen: 49.569 ug/l
 RT: 5.31 min Scan# 1469
 Delta R.T. 0.00 min
 Lab File: VU025756.D
 Acq: 31 Jul 2018 22:01

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0801MBSD01

Tot Ion	Ratio	Lower	Upper
65	100		
67	52.1	0.0	103.6

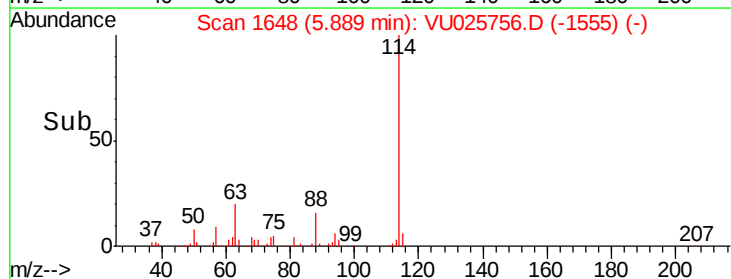
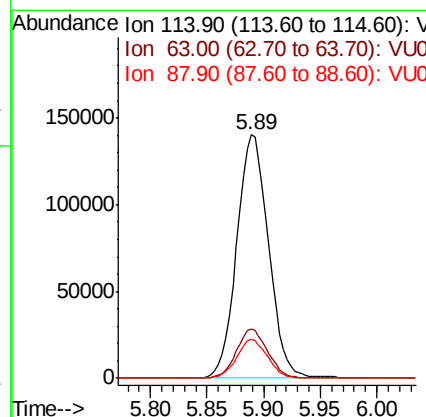
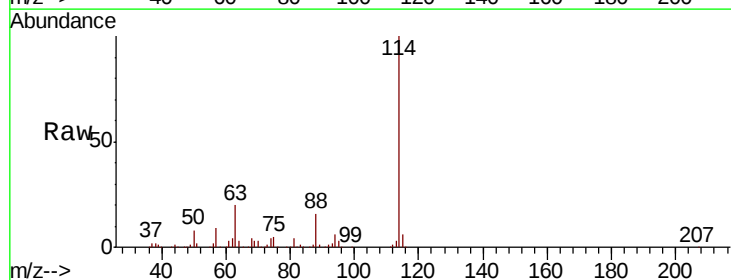
Manual Integrations
 APPROVED

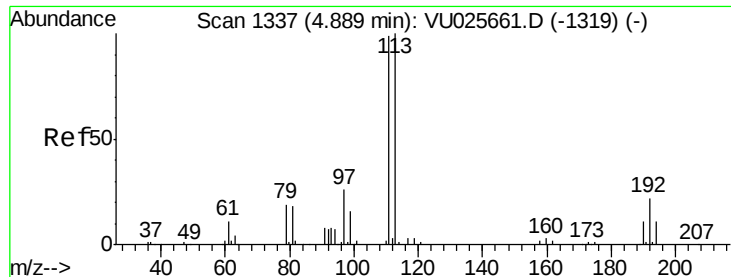
MMDadoda
 8/2/2018 9:41:02 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.89 min Scan# 1648
 Delta R.T. 0.00 min
 Lab File: VU025756.D
 Acq: 31 Jul 2018 22:01

Tgt Ion	Ratio	Lower	Upper
114	100		
63	20.3	0.0	41.6
88	16.0	0.0	32.4





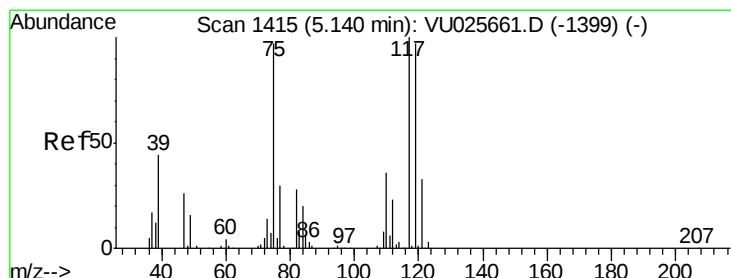
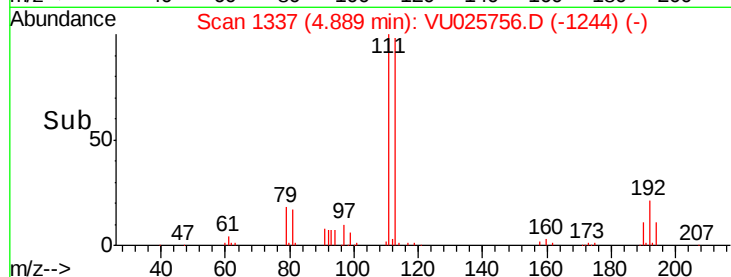
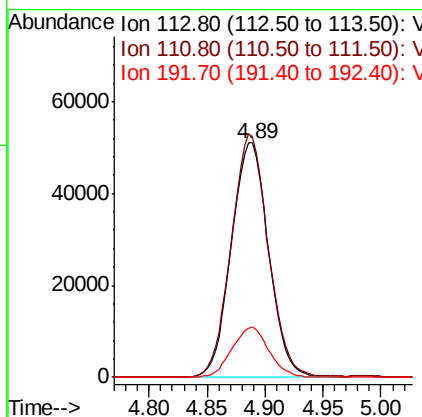
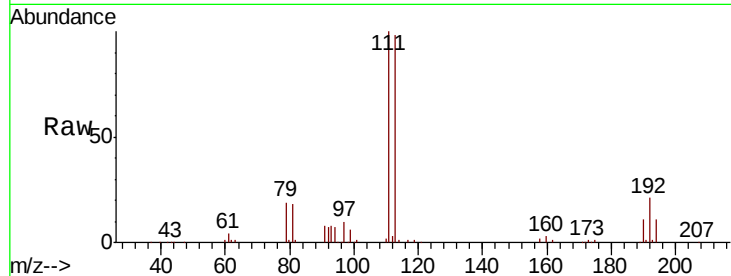
#35
 Dibromofluoromethane
 Concen: 47.763 ug/l
 RT: 4.89 min Scan# 1337
 Delta R.T. 0.00 min
 Lab File: VU025756.D
 Acq: 31 Jul 2018 22:01

Instrument :
 MSVOA_U
 ClientSampled :
 VU0801MBSD01

Tot Ion	Ratio	Lower	Upper
113	100		
111	103.0	81.7	122.5
192	21.2	17.1	25.7

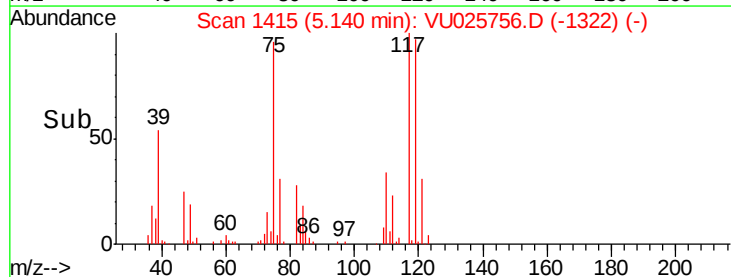
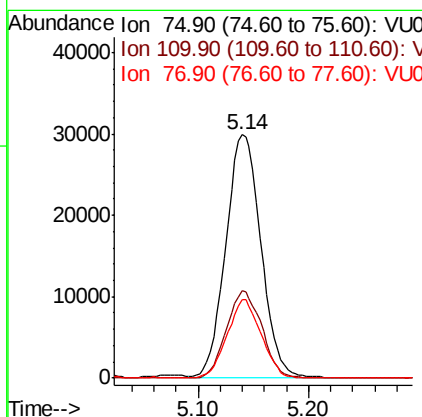
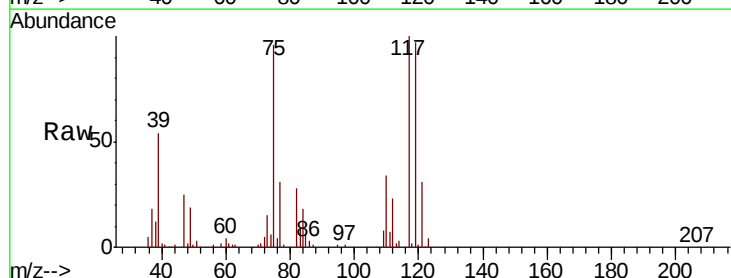
Manual Integrations
 APPROVED

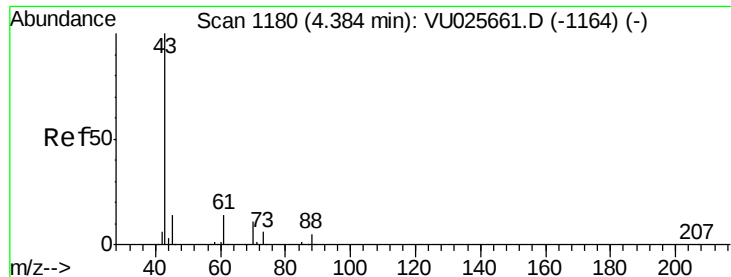
MMDadoda
 8/2/2018 9:41:02 AM



#36
 1,1-Dichloropropene
 Concen: 20.696 ug/l
 RT: 5.14 min Scan# 1415
 Delta R.T. 0.00 min
 Lab File: VU025756.D
 Acq: 31 Jul 2018 22:01

Tgt Ion	Ratio	Lower	Upper
75	100		
110	35.7	17.6	52.9
77	31.1	24.4	36.6





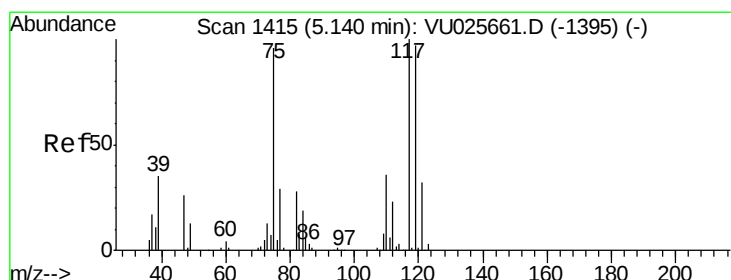
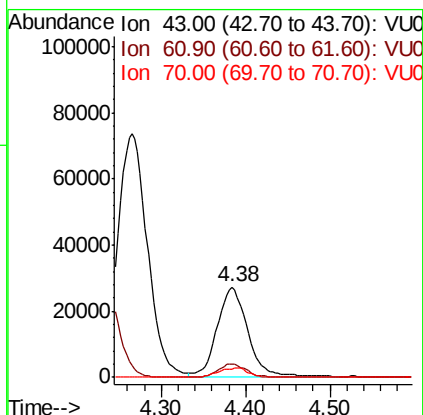
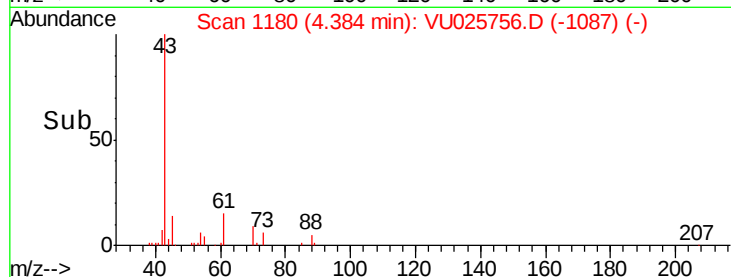
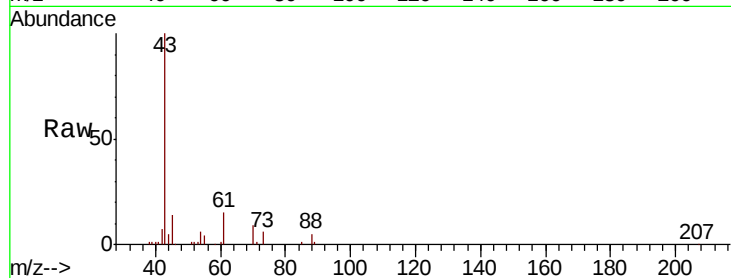
#37
Ethyl Acetate
Concen: 20.571 ug/l
RT: 4.38 min Scan# 1180
Delta R.T. 0.00 min
Lab File: VU025756.D
Acq: 31 Jul 2018 22:01

Instrument :
MSVOA_U
ClientSampleID :
VU0801MBSD01

Tot Ion	Ratio	Lower	Upper
43	100		
61	14.0	10.7	16.1
70	10.2	8.4	12.6

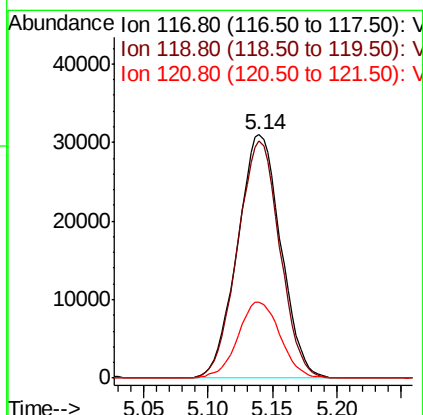
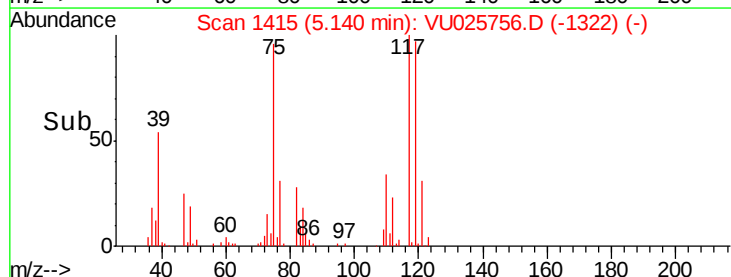
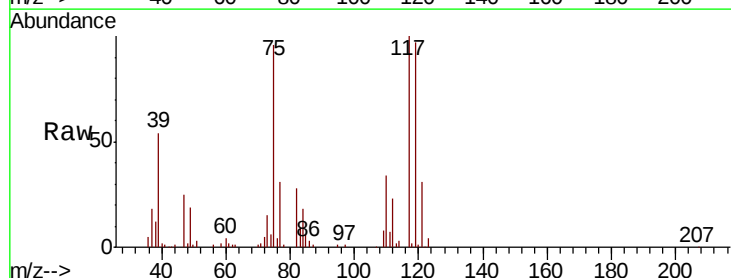
Manual Integrations
APPROVED

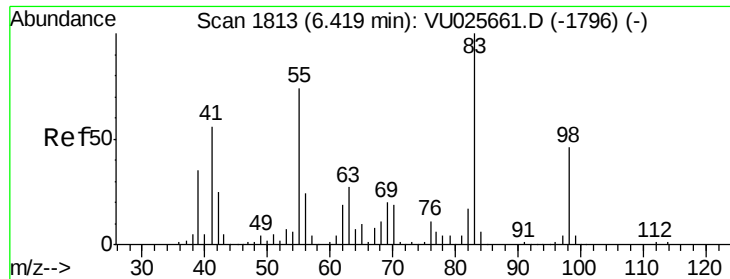
MMDadoda
8/2/2018 9:41:02 AM



#38
Carbon Tetrachloride
Concen: 19.983 ug/l
RT: 5.14 min Scan# 1415
Delta R.T. 0.00 min
Lab File: VU025756.D
Acq: 31 Jul 2018 22:01

Tgt Ion	Ratio	Lower	Upper
117	100		
119	97.3	75.7	113.5
121	31.2	24.6	36.8





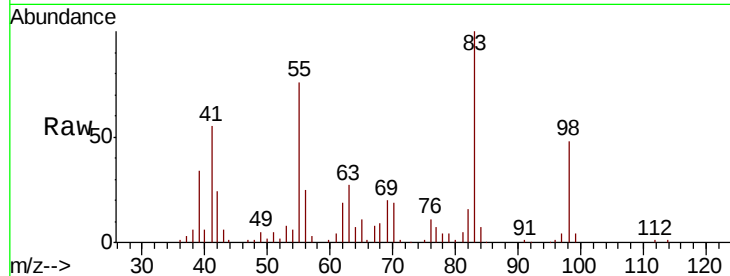
#39
Methvlcvclohexane
Concen: 19.676 ug/l
RT: 6.42 min Scan# 1813
Delta R.T. 0.00 min
Lab File: VU025756.D
Acq: 31 Jul 2018 22:01

Instrument :
MSVOA_U
ClientSampleId :
VU0801MBSD01

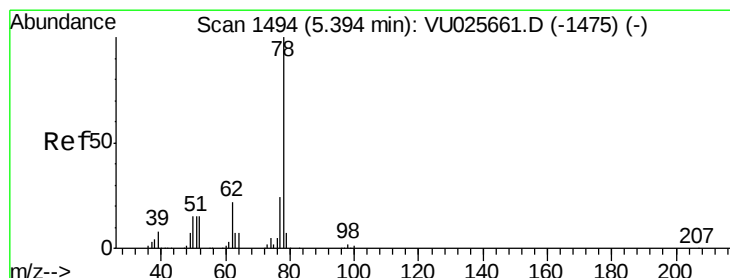
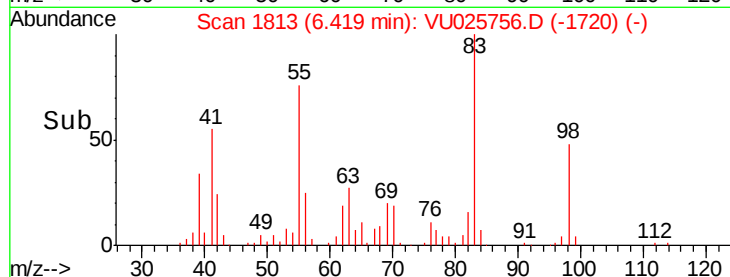
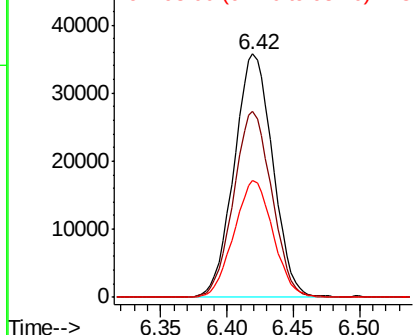
Tot Ion	Ratio	Lower	Upper
83	100		
55	76.3	60.0	90.0
98	47.9	36.1	54.1

Manual Integrations
APPROVED

MMDadoda
8/2/2018 9:41:02 AM

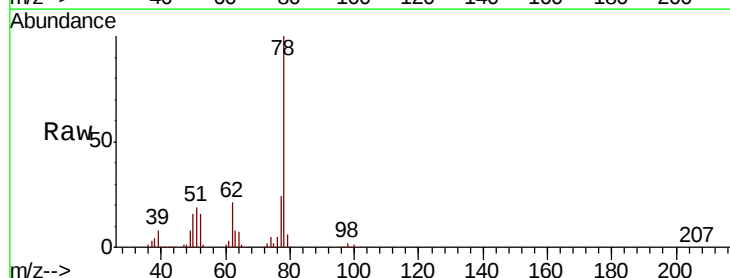


Abundance Ion 83.00 (82.70 to 83.70): VU0
Ion 55.00 (54.70 to 55.70): VU0
Ion 98.00 (97.70 to 98.70): VU0

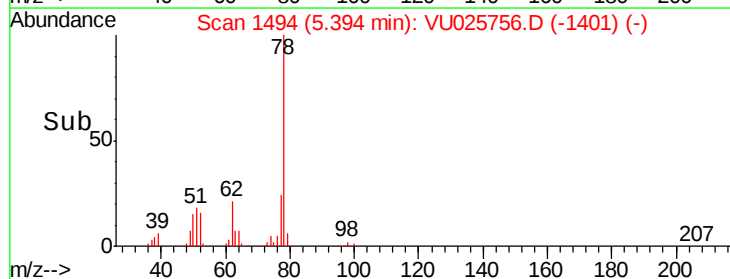
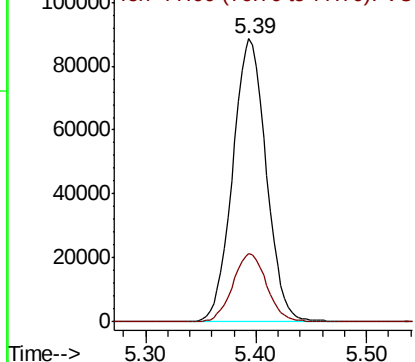


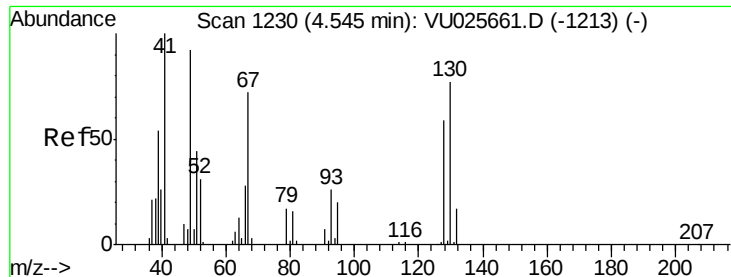
#40
Benzene
Concen: 19.876 ug/l
RT: 5.39 min Scan# 1494
Delta R.T. 0.00 min
Lab File: VU025756.D
Acq: 31 Jul 2018 22:01

Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.1	19.8	29.6



Abundance Ion 78.00 (77.70 to 78.70): VU0
Ion 77.00 (76.70 to 77.70): VU0





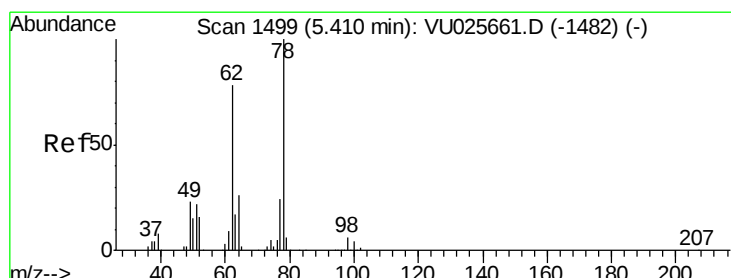
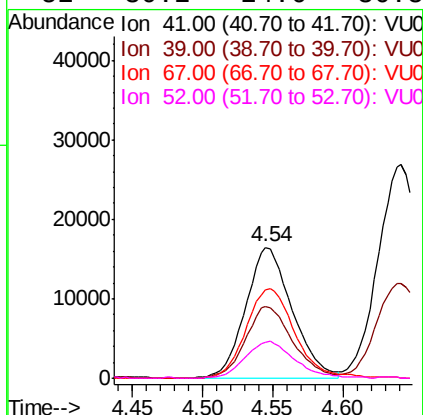
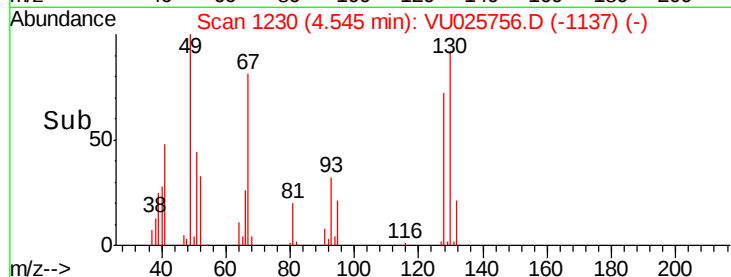
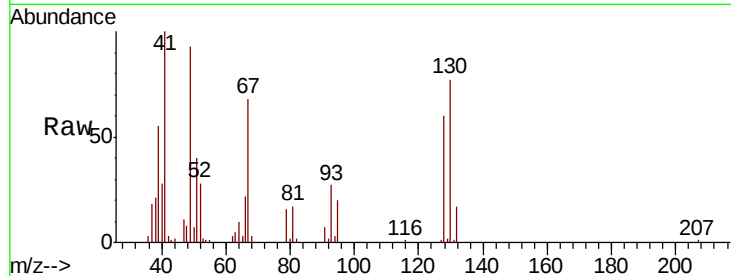
#41
Methacrylonitrile
Concen: 20.582 ug/l
RT: 4.54 min Scan# 1230
Delta R.T. 0.00 min
Lab File: VU025756.D
Acq: 31 Jul 2018 22:01

Instrument :
MSVOA_U
ClientSampleId :
VU0801MBSD01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
41	100				
39	55.7	44.4	66.6		
67	71.7	56.0	84.0		
52	30.2	24.6	36.8		

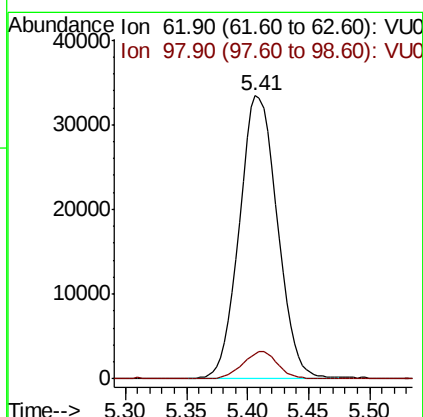
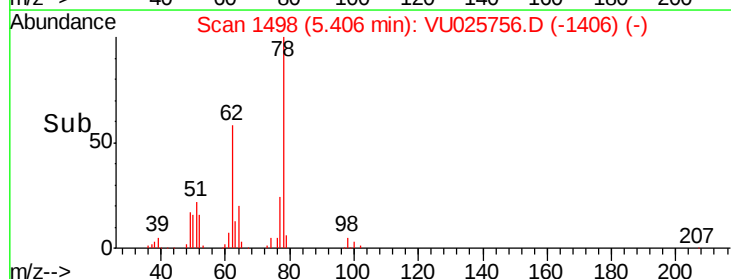
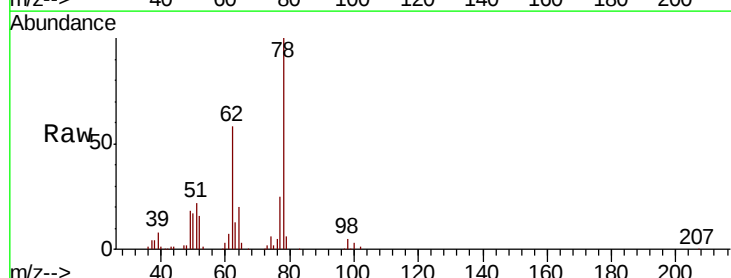
Manual Integrations
APPROVED

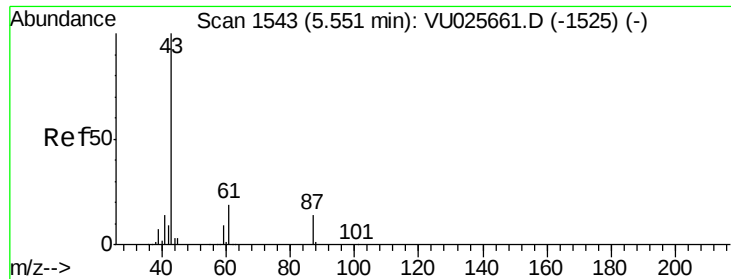
MMDadoda
8/2/2018 9:41:02 AM



#42
1,2-Dichloroethane
Concen: 19.980 ug/l
RT: 5.41 min Scan# 1498
Delta R.T. -0.00 min
Lab File: VU025756.D
Acq: 31 Jul 2018 22:01

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
62	100				
98	8.7	0.0	16.4		





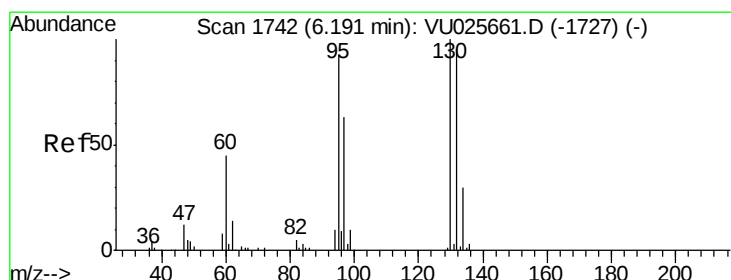
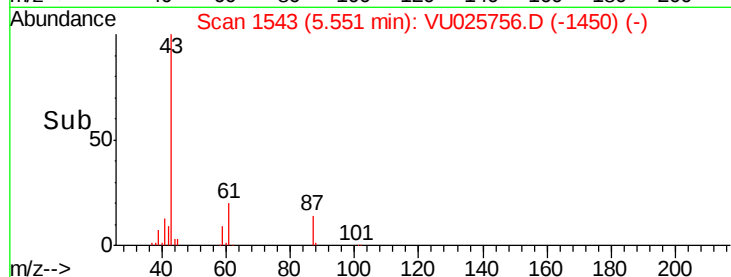
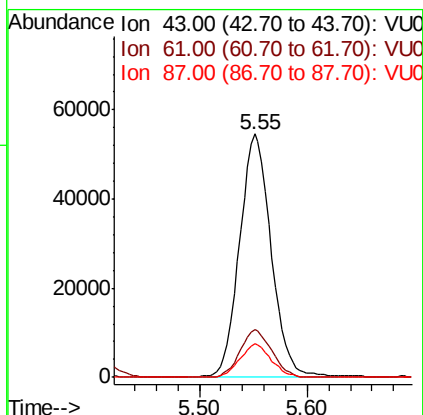
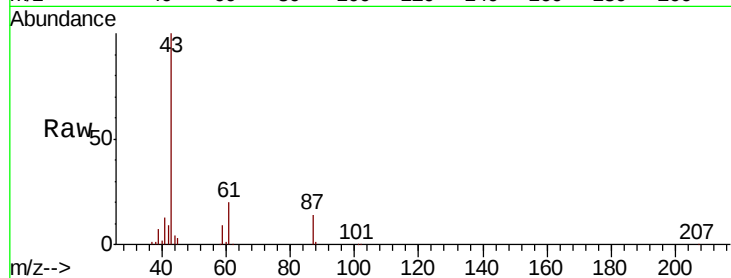
#43
Isopropyl Acetate
Concen: 20.315 ug/l
RT: 5.55 min Scan# 1543
Delta R.T. 0.00 min
Lab File: VU025756.D
Acq: 31 Jul 2018 22:01

Instrument :
MSVOA_U
ClientSampleId :
VU0801MBSD01

Tot Ion	Ratio	Lower	Upper
43	100		
61	19.7	15.5	23.3
87	13.5	10.6	16.0

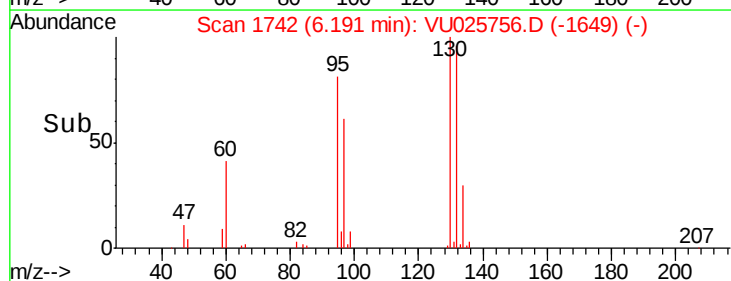
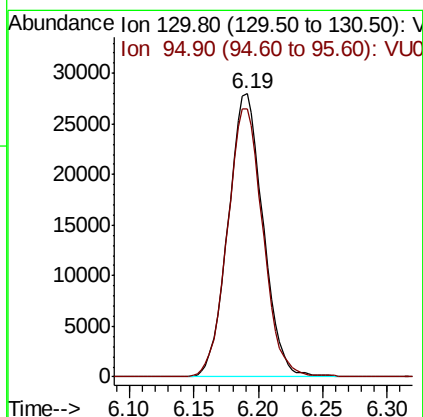
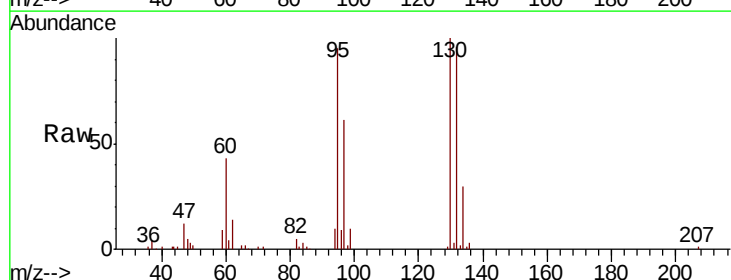
Manual Integrations
APPROVED

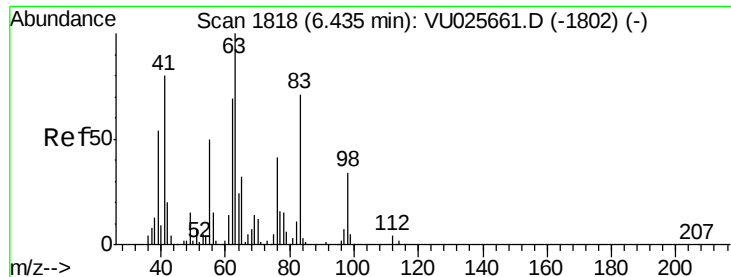
MMDadoda
8/2/2018 9:41:02 AM



#44
Trichloroethene
Concen: 20.161 ug/l
RT: 6.19 min Scan# 1742
Delta R.T. 0.00 min
Lab File: VU025756.D
Acq: 31 Jul 2018 22:01

Tgt Ion	Ratio	Lower	Upper
130	100		
95	94.9	0.0	192.2





#45

1,2-Dichloropropane

Concen: 19.710 ug/l

RT: 6.44 min Scan# 1819

Delta R.T. 0.00 min

Lab File: VU025756.D

Acq: 31 Jul 2018 22:01

Instrument :

MSVOA_U

ClientSampleId :

VU0801MBSD01

Tot Ion: 63 Resp: 48164

Ion Ratio Lower Upper

63 100

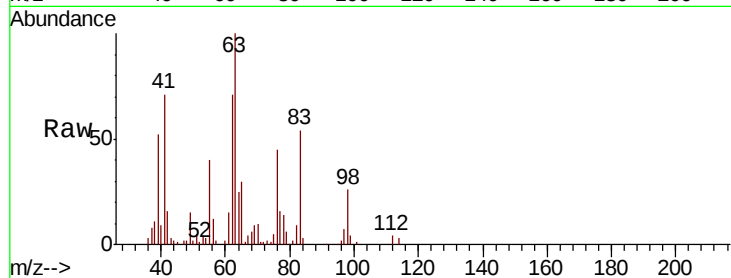
65 30.1 26.1 39.1

Manual Integrations

APPROVED

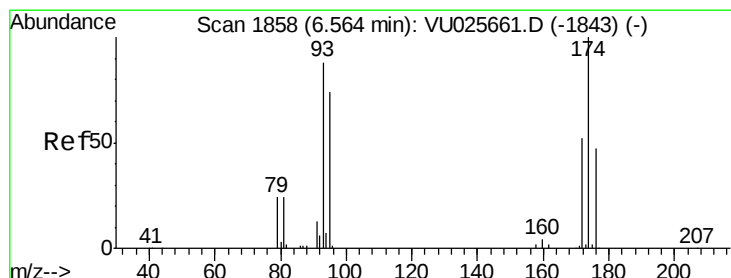
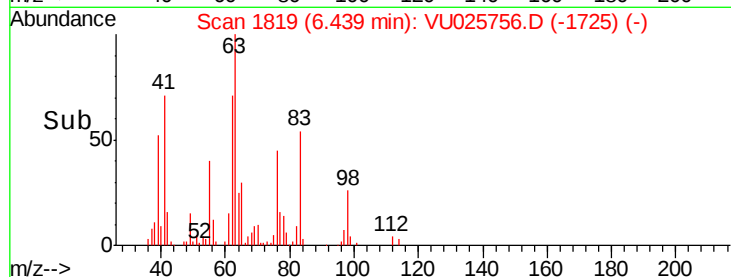
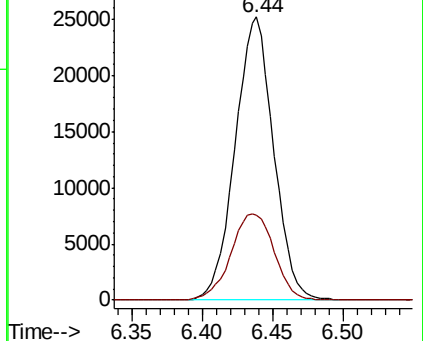
MMDadoda

8/2/2018 9:41:02 AM



Abundance Ion 62.90 (62.60 to 63.60): VU0

Ion 64.90 (64.60 to 65.60): VU0



#46

Dibromomethane

Concen: 19.915 ug/l

RT: 6.56 min Scan# 1858

Delta R.T. 0.00 min

Lab File: VU025756.D

Acq: 31 Jul 2018 22:01

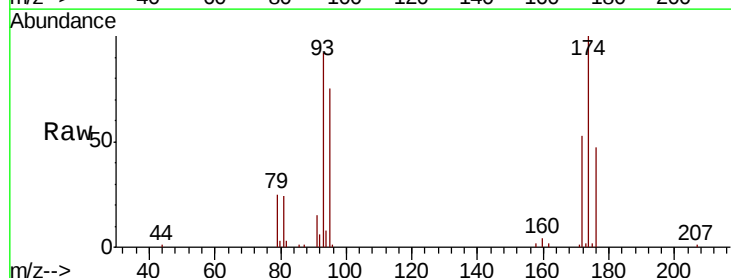
Tgt Ion: 93 Resp: 35262

Ion Ratio Lower Upper

93 100

95 82.5 66.6 100.0

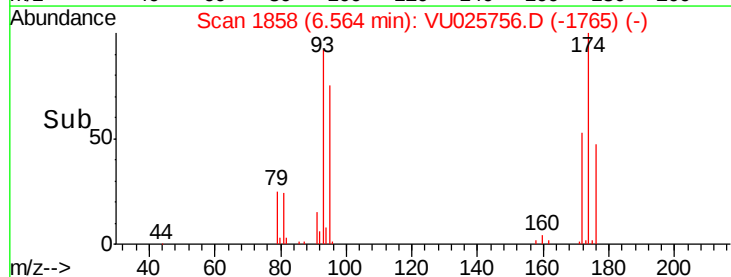
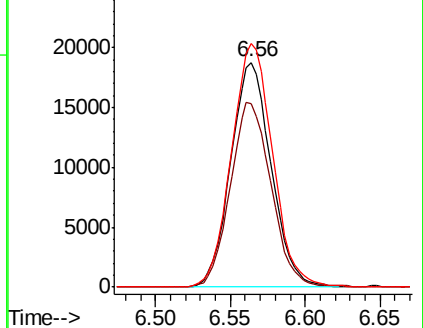
174 110.5 85.8 128.8

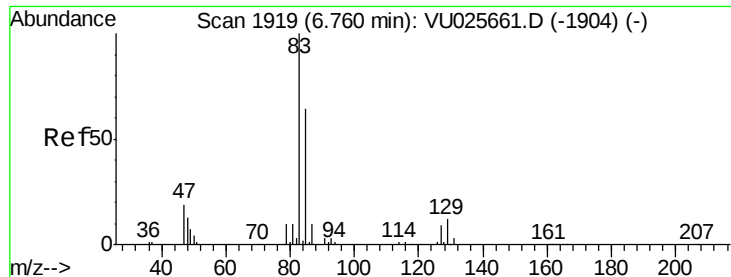


Abundance Ion 92.80 (92.50 to 93.50): VU0

Ion 94.80 (94.50 to 95.50): VU0

Ion 173.70 (173.40 to 174.40): V





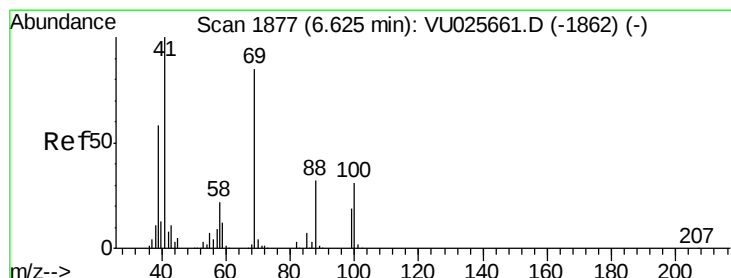
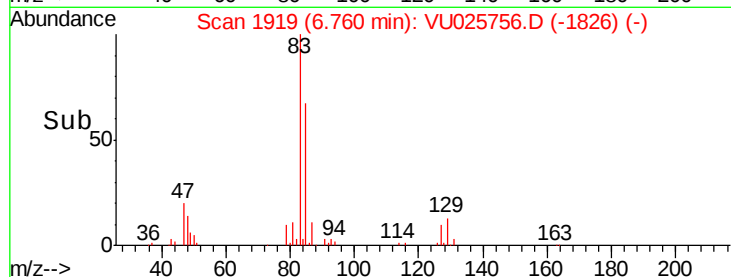
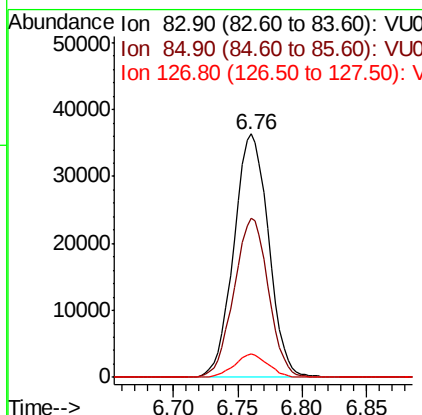
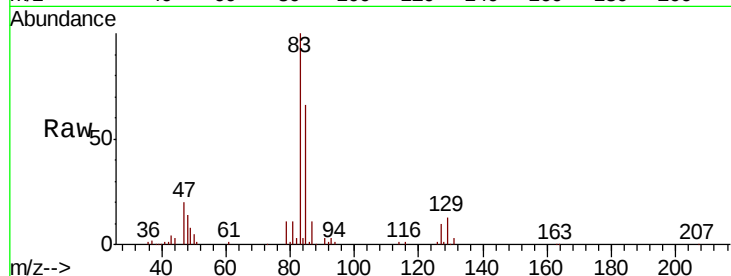
#47
Bromodichloromethane
Concen: 20.146 ug/l
RT: 6.76 min Scan# 1919
Delta R.T. 0.00 min
Lab File: VU025756.D
Acq: 31 Jul 2018 22:01

Instrument :
MSVOA_U
ClientSampleId :
VU0801MBSD01

Tot Ion	83	Resp	68042
Ion Ratio	100	Lower	Upper
83	100		
85	65.6	50.2	75.4
127	9.5	7.2	10.8

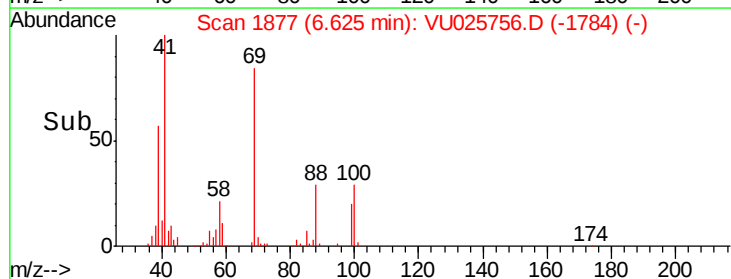
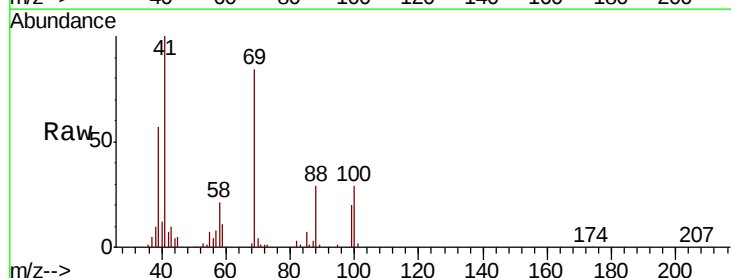
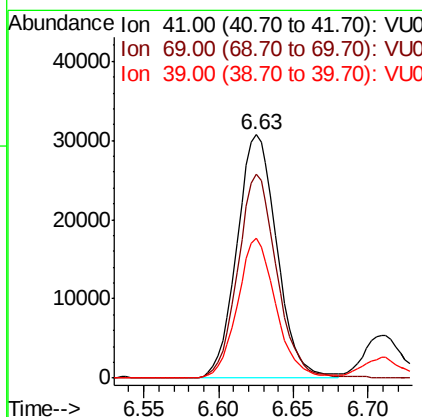
Manual Integrations
APPROVED

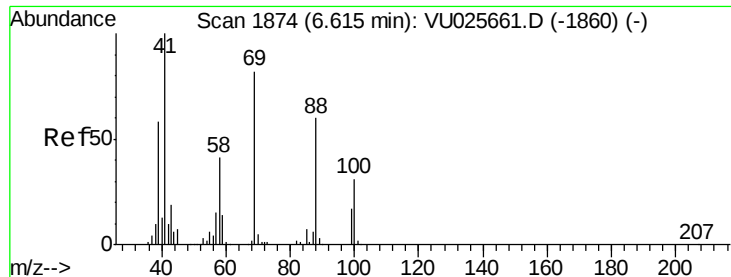
MMDadoda
8/2/2018 9:41:02 AM



#48
Methyl methacrylate
Concen: 21.234 ug/l
RT: 6.63 min Scan# 1877
Delta R.T. 0.00 min
Lab File: VU025756.D
Acq: 31 Jul 2018 22:01

Tgt Ion	41	Resp	57158
Ion Ratio	100	Lower	Upper
41	100		
69	81.1	65.0	97.4
39	55.0	46.4	69.6





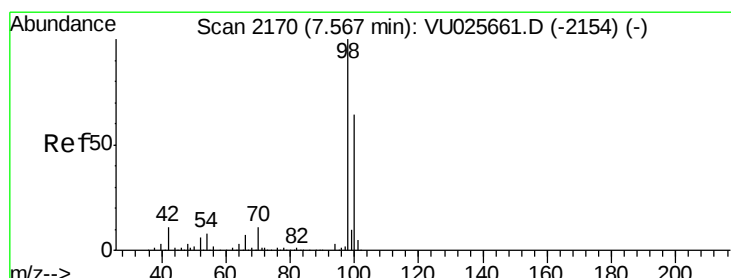
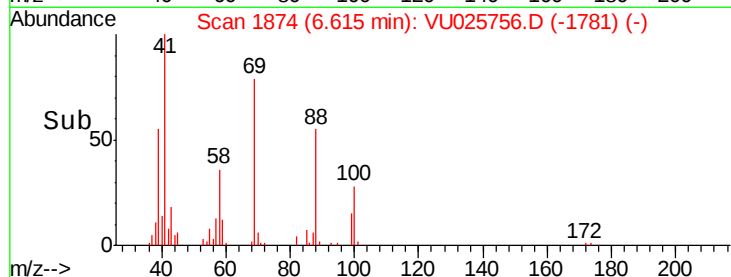
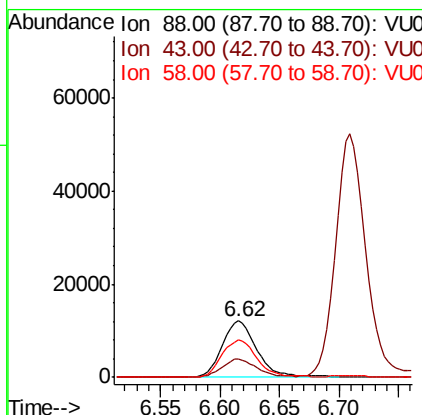
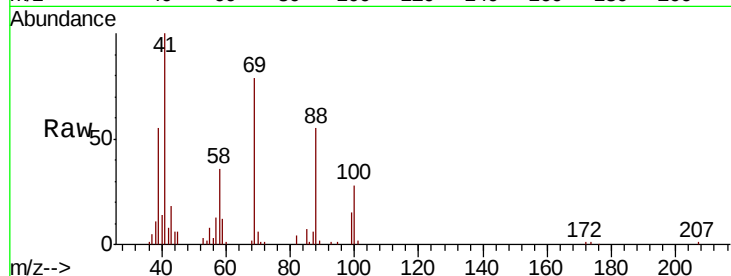
#49
1,4-Dioxane
Concen: 372.489 ug/l
RT: 6.62 min Scan# 1874
Delta R.T. 0.00 min
Lab File: VU025756.D
Acq: 31 Jul 2018 22:01

Instrument :
MSVOA_U
ClientSampleId :
VU0801MBSD01

Tot Ion	Ratio	Lower	Upper
88	100		
43	32.9	27.3	40.9
58	67.8	57.6	86.4

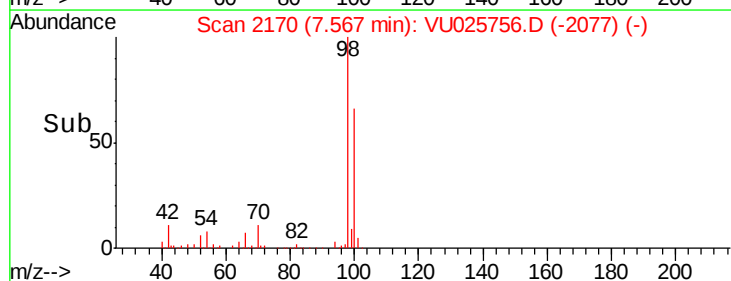
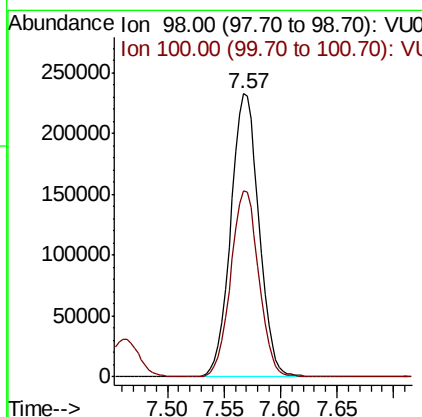
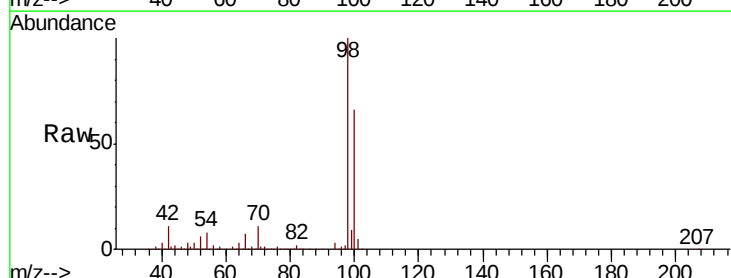
Manual Integrations
APPROVED

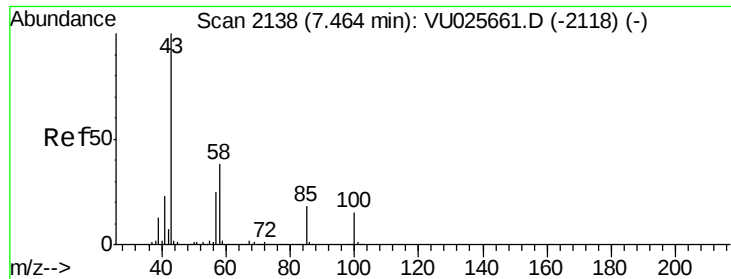
MMDadoda
8/2/2018 9:41:02 AM



#50
Toluene-d8
Concen: 48.441 ug/l
RT: 7.57 min Scan# 2170
Delta R.T. 0.00 min
Lab File: VU025756.D
Acq: 31 Jul 2018 22:01

Tgt Ion	Ratio	Lower	Upper
98	100		
100	65.1	51.1	76.7





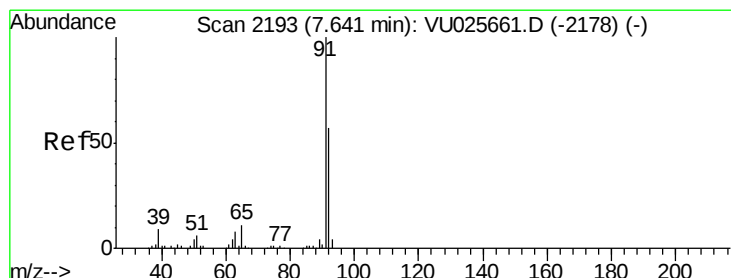
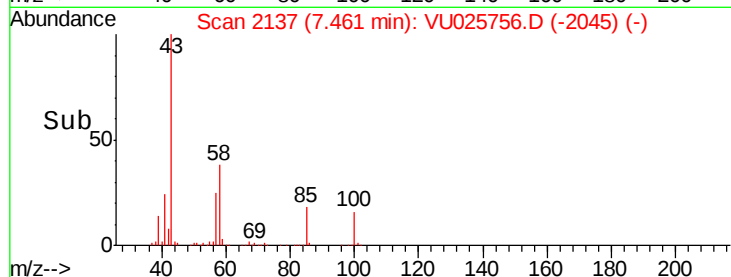
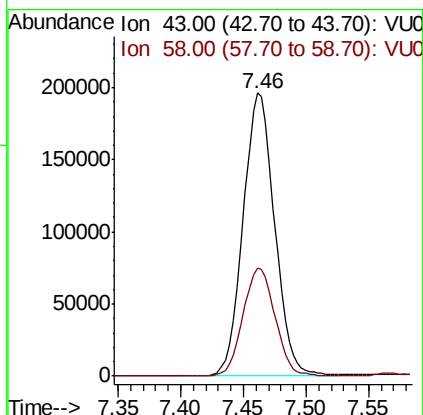
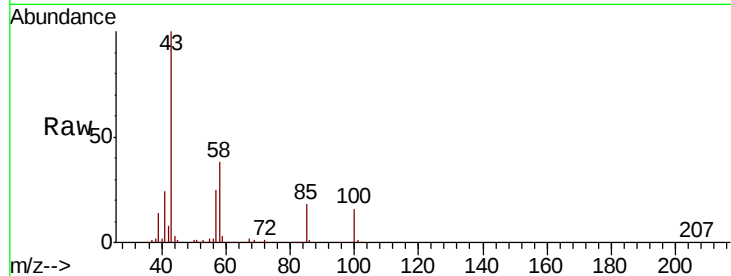
#51
4-Methyl-2-Pentanone
Concen: 100.158 ug/l
RT: 7.46 min Scan# 2137
Delta R.T. -0.00 min
Lab File: VU025756.D
Acq: 31 Jul 2018 22:01

Instrument :
MSVOA_U
ClientSampleId :
VU0801MBSD01

Tot Ion	43	Resp	344396
Ion Ratio	100	Lower	Upper
43	100		
58	39.0	31.0	46.4

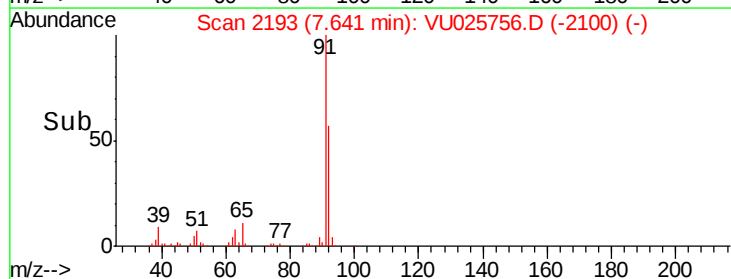
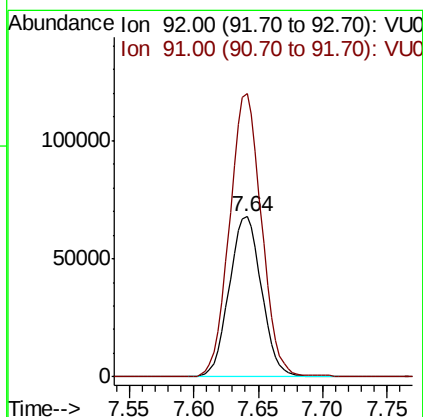
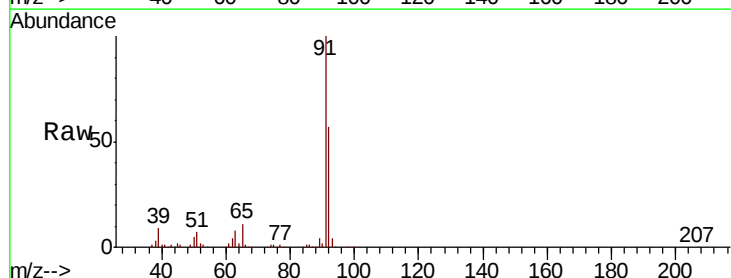
Manual Integrations
APPROVED

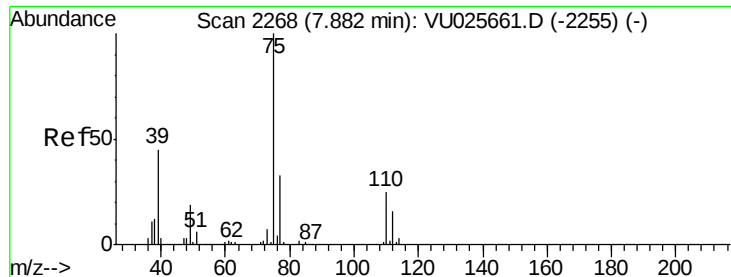
MMDadoda
8/2/2018 9:41:02 AM



#52
Toluene
Concen: 20.323 ug/l
RT: 7.64 min Scan# 2193
Delta R.T. 0.00 min
Lab File: VU025756.D
Acq: 31 Jul 2018 22:01

Tgt Ion	92	Resp	118297
Ion Ratio	100	Lower	Upper
92	100		
91	174.7	139.2	208.8





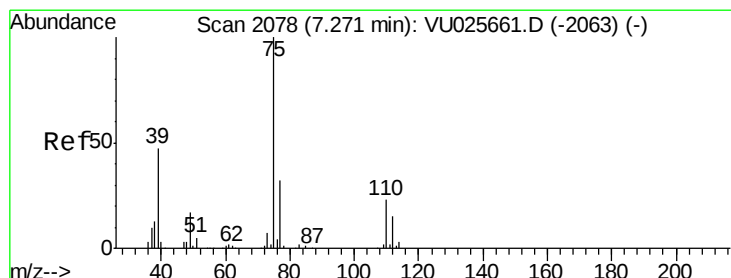
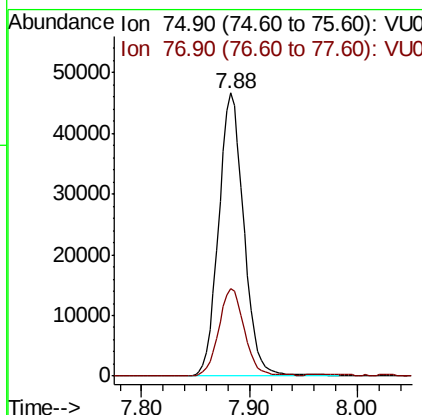
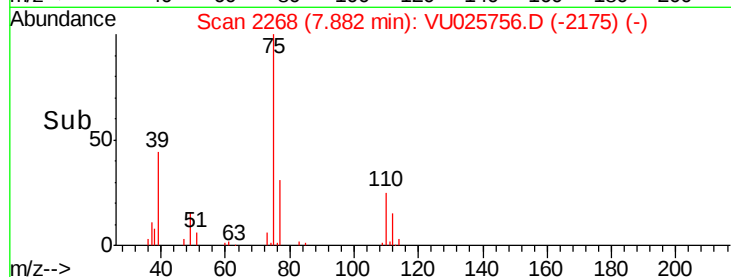
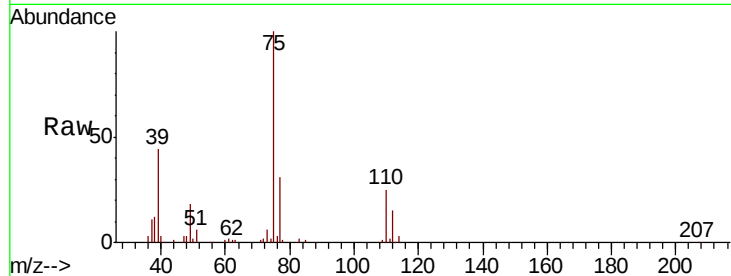
#53
t-1,3-Dichloropropene
Concen: 19.978 ug/l
RT: 7.88 min Scan# 2268
Delta R.T. 0.00 min
Lab File: VU025756.D
Acq: 31 Jul 2018 22:01

Instrument :
MSVOA_U
ClientSampleId :
VU0801MBSD01

Tot Ion: 75 Resp: 75761
Ion Ratio Lower Upper
75 100
77 30.7 24.5 36.7

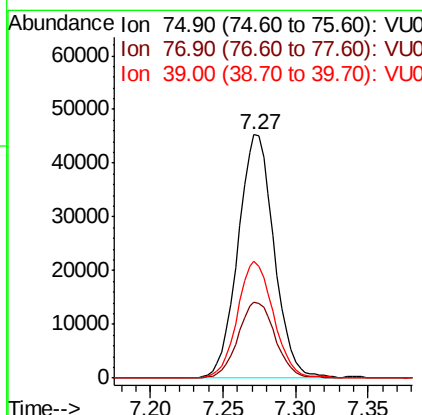
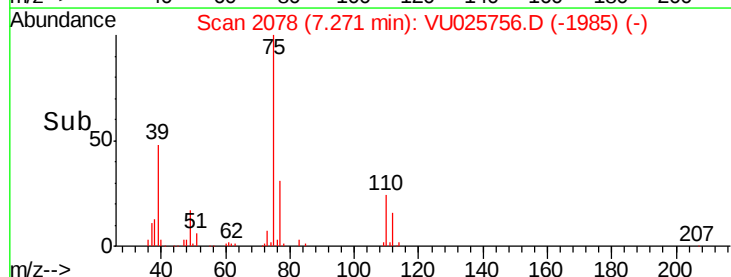
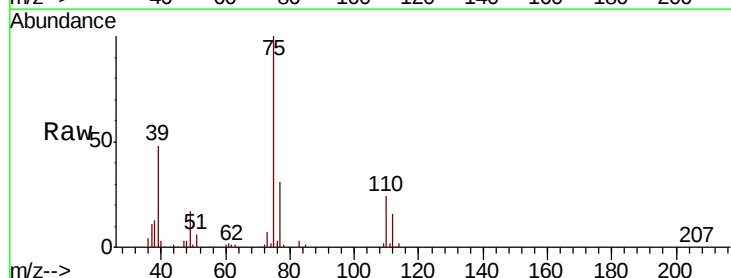
Manual Integrations
APPROVED

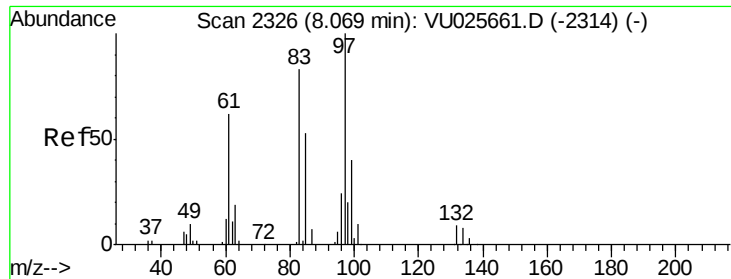
MMDadoda
8/2/2018 9:41:02 AM



#54
cis-1,3-Dichloropropene
Concen: 20.091 ug/l
RT: 7.27 min Scan# 2078
Delta R.T. 0.00 min
Lab File: VU025756.D
Acq: 31 Jul 2018 22:01

Tgt Ion: 75 Resp: 78265
Ion Ratio Lower Upper
75 100
77 31.2 25.6 38.4
39 47.9 40.0 60.0





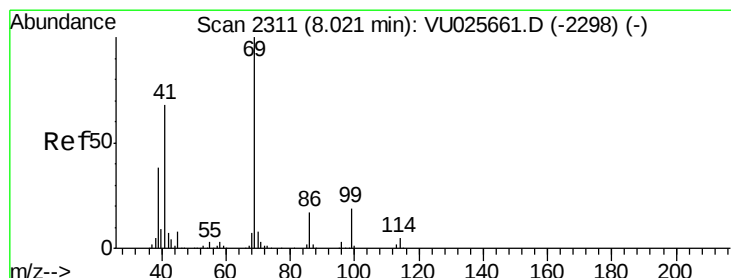
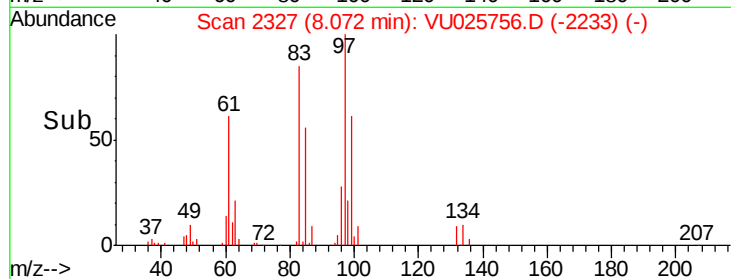
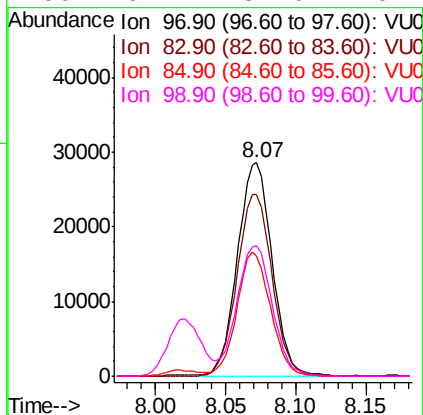
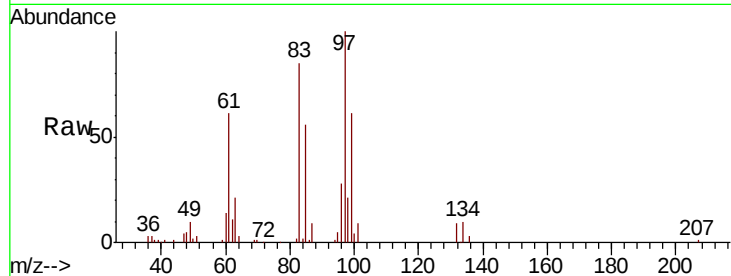
#55
 1,1,2-Trichloroethane
 Concen: 20.390 ug/l
 RT: 8.07 min Scan# 2327
 Delta R.T. 0.00 min
 Lab File: VU025756.D
 Acq: 31 Jul 2018 22:01

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0801MBSD01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		49324		
83	85.3	68.9	103.3		
85	56.3	44.4	66.6		
99	61.1	51.0	76.4		

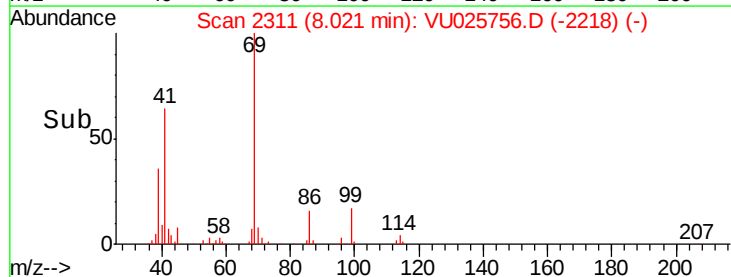
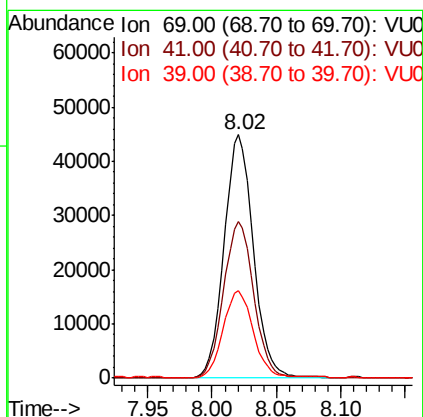
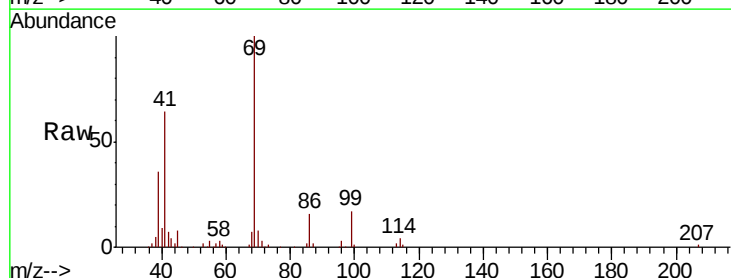
Manual Integrations
 APPROVED

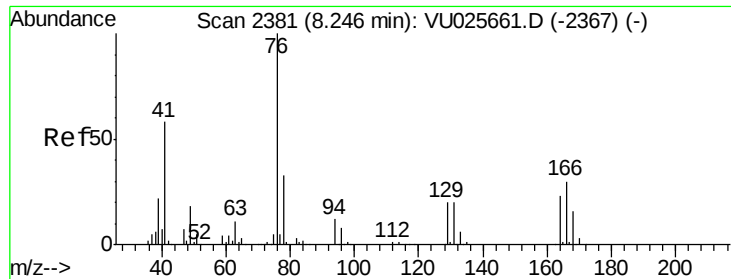
MMDadoda
 8/2/2018 9:41:02 AM



#56
 Ethyl methacrylate
 Concen: 20.465 ug/l
 RT: 8.02 min Scan# 2311
 Delta R.T. 0.00 min
 Lab File: VU025756.D
 Acq: 31 Jul 2018 22:01

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
69	100		70733		
41	66.4	54.8	82.2		
39	36.3	31.1	46.7		





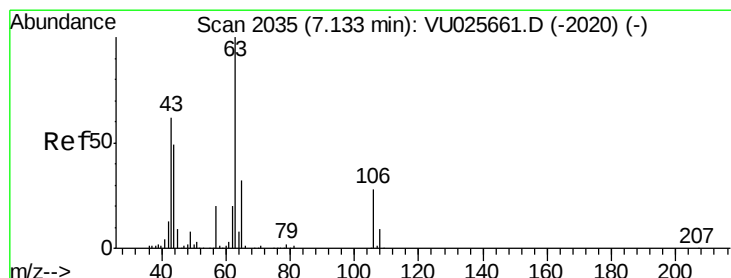
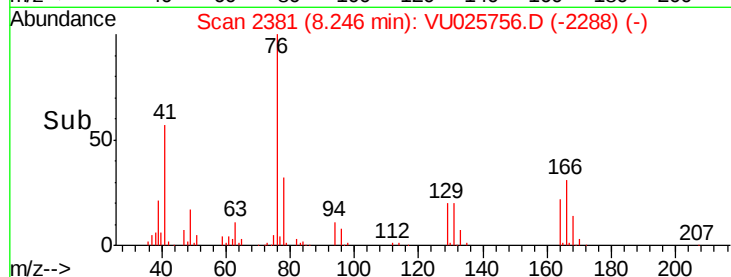
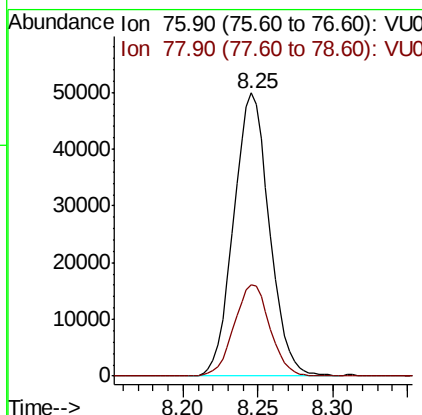
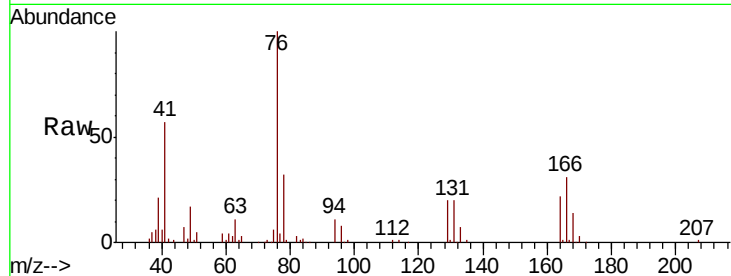
#57
 1,3-Dichloropropane
 Concen: 20.383 ug/l
 RT: 8.25 min Scan# 2381
 Delta R.T. 0.00 min
 Lab File: VU025756.D
 Acq: 31 Jul 2018 22:01

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0801MBSD01

Tot Ion: 76 Resp: 82918
 Ion Ratio Lower Upper
 76 100
 78 32.4 26.1 39.1

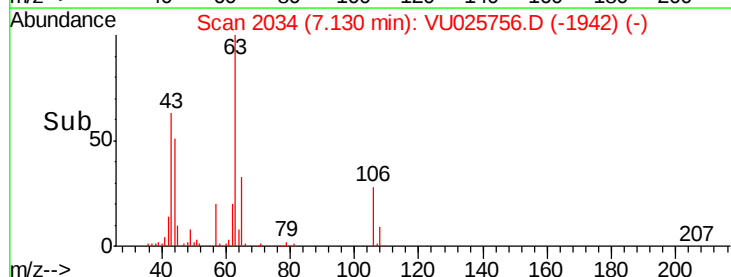
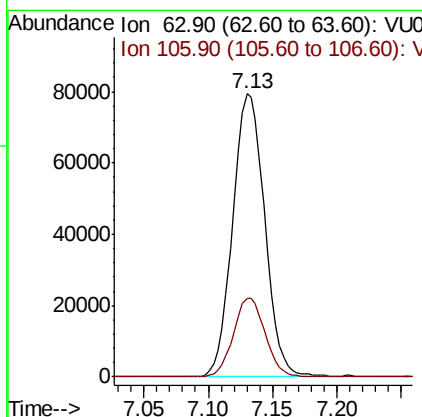
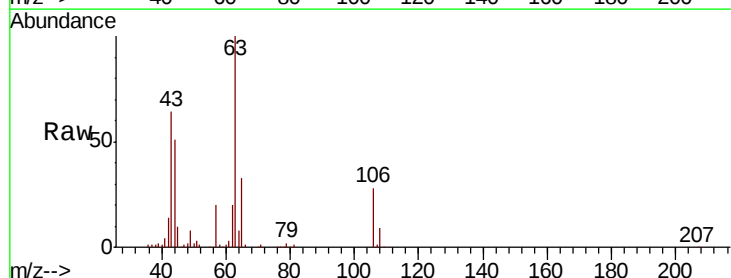
Manual Integrations
 APPROVED

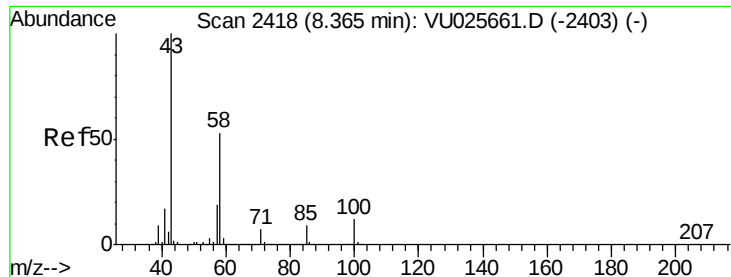
MMDadoda
 8/2/2018 9:41:02 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 92.310 ug/l
 RT: 7.13 min Scan# 2034
 Delta R.T. -0.00 min
 Lab File: VU025756.D
 Acq: 31 Jul 2018 22:01

Tgt Ion: 63 Resp: 137287
 Ion Ratio Lower Upper
 63 100
 106 27.6 22.3 33.5





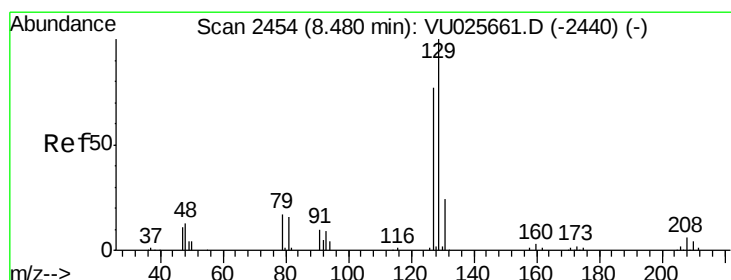
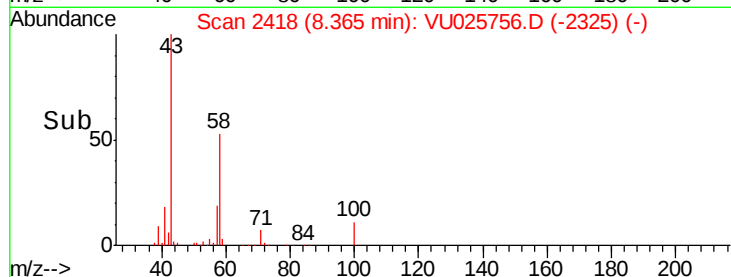
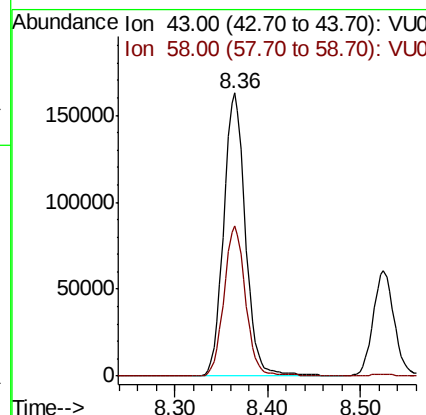
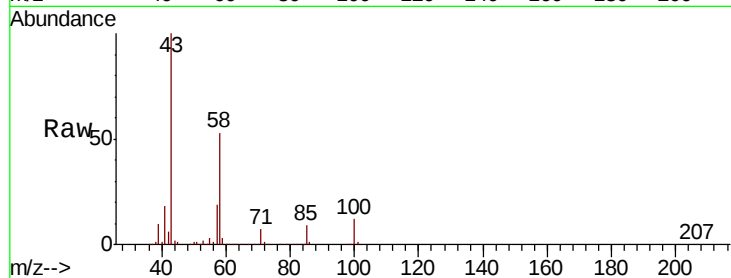
#59
2-Hexanone
Concen: 98.646 ug/l
RT: 8.36 min Scan# 2418
Delta R.T. 0.00 min
Lab File: VU025756.D
Acq: 31 Jul 2018 22:01

Instrument :
MSVOA_U
ClientSampleId :
VU0801MBSD01

Tot Ion	43	Resp	265889
Ion Ratio	100	Lower	Upper
43	100		
58	52.7	26.2	78.5

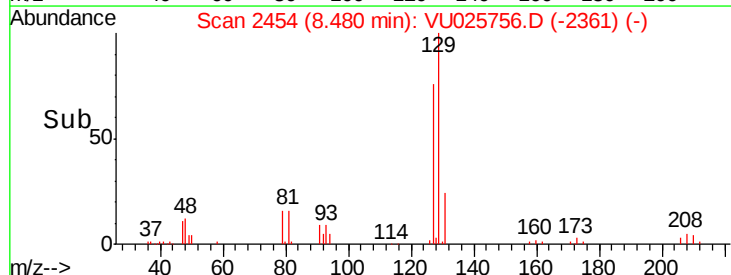
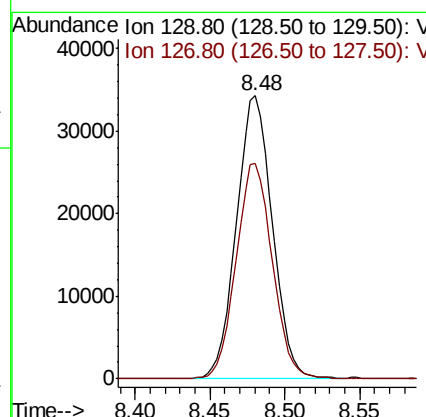
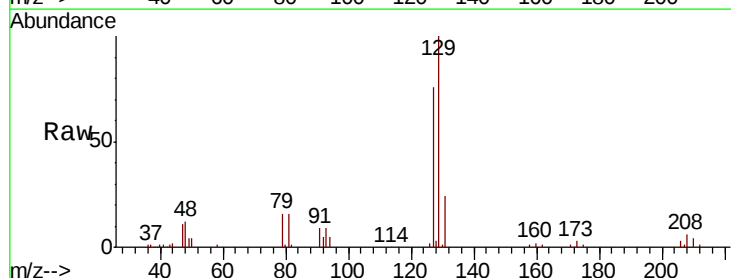
Manual Integrations
APPROVED

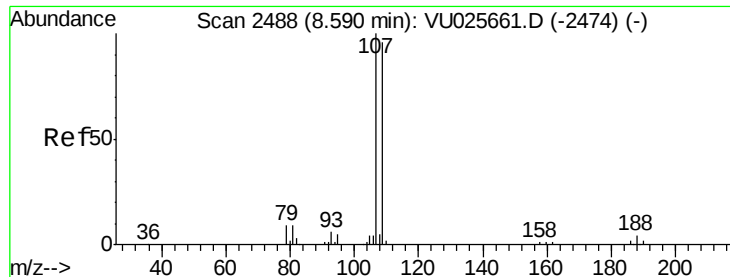
MMDadoda
8/2/2018 9:41:02 AM



#60
Dibromochloromethane
Concen: 20.151 ug/l
RT: 8.48 min Scan# 2454
Delta R.T. 0.00 min
Lab File: VU025756.D
Acq: 31 Jul 2018 22:01

Tgt Ion	129	Resp	57483
Ion Ratio	100	Lower	Upper
129	100		
127	76.7	38.6	115.8





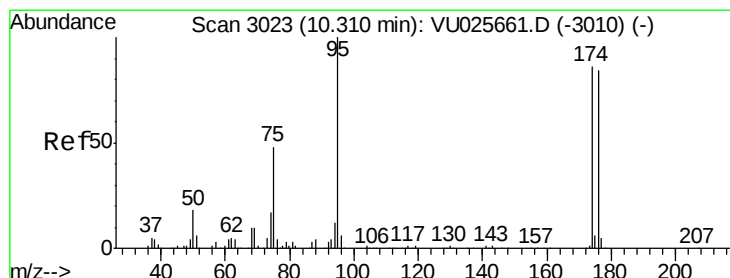
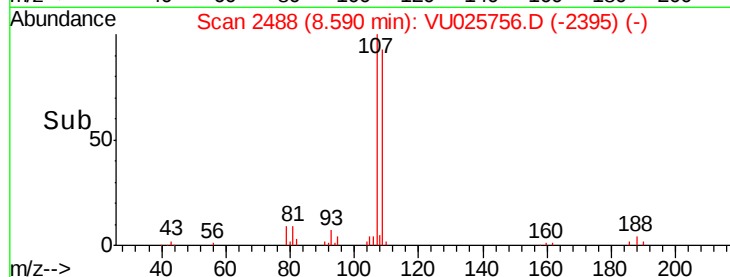
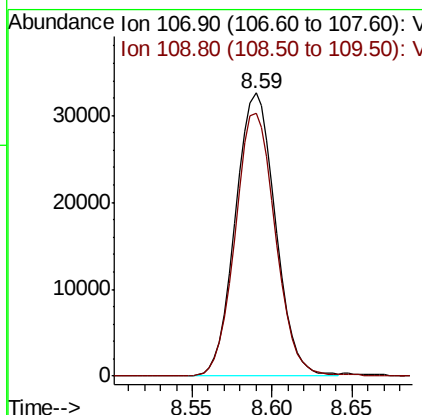
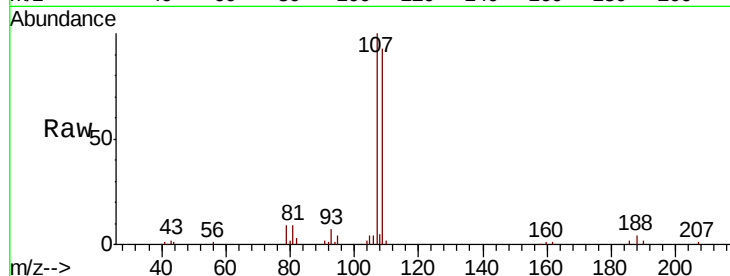
#61
 1,2-Dibromoethane
 Concen: 20.633 ug/l
 RT: 8.59 min Scan# 2488
 Delta R.T. 0.00 min
 Lab File: VU025756.D
 Acq: 31 Jul 2018 22:01

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0801MBSD01

Tot Ion	Ratio	Lower	Upper
107	100		
109	93.3	75.8	113.8

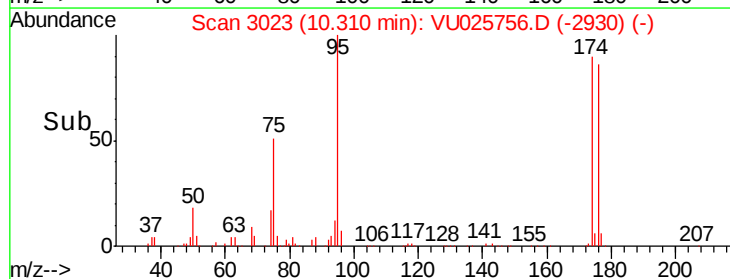
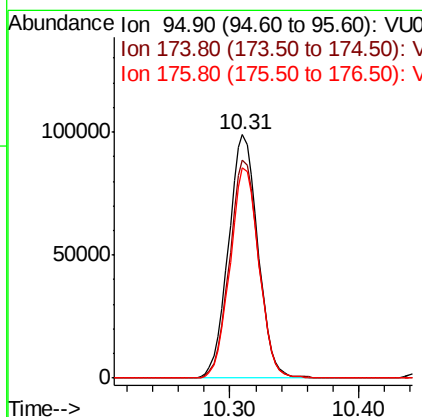
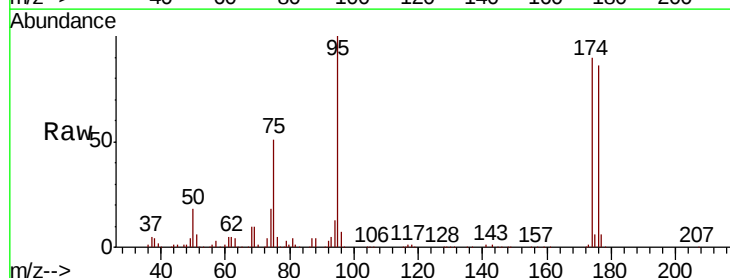
Manual Integrations
 APPROVED

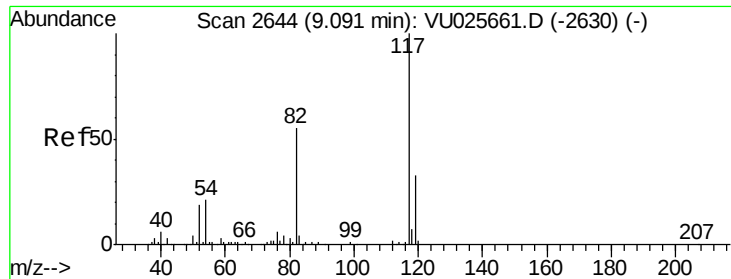
MMDadoda
 8/2/2018 9:41:02 AM



#62
 4-Bromofluorobenzene
 Concen: 48.319 ug/l
 RT: 10.31 min Scan# 3023
 Delta R.T. 0.00 min
 Lab File: VU025756.D
 Acq: 31 Jul 2018 22:01

Tgt Ion	Ratio	Lower	Upper
95	100		
174	88.7	0.0	172.2
176	84.9	0.0	162.6





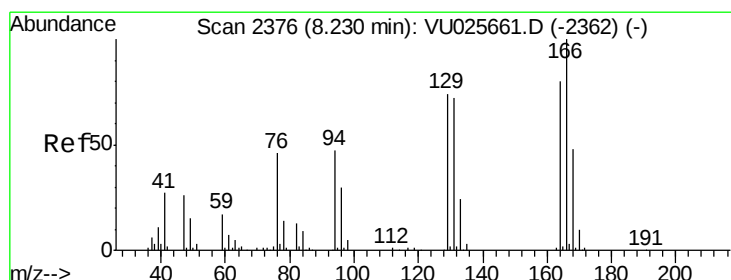
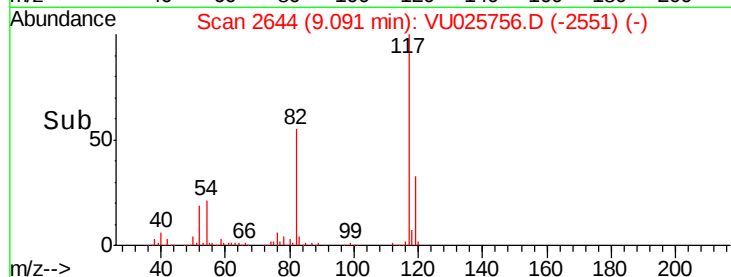
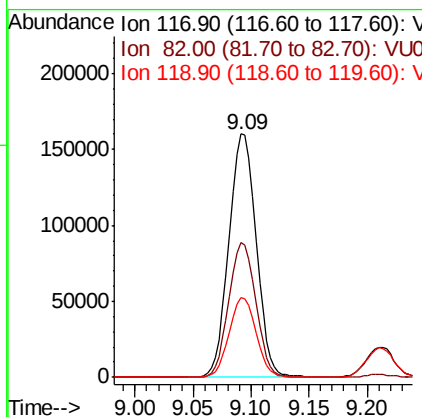
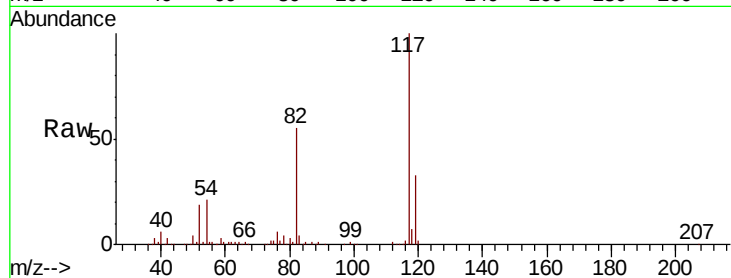
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2644
Delta R.T. 0.00 min
Lab File: VU025756.D
Acq: 31 Jul 2018 22:01

Instrument :
MSVOA_U
ClientSampleId :
VU0801MBSD01

Tot Ion	Ratio	Resp	Lower	Upper
117	100	261091		
82	55.1	46.0	69.0	
119	32.6	26.0	39.0	

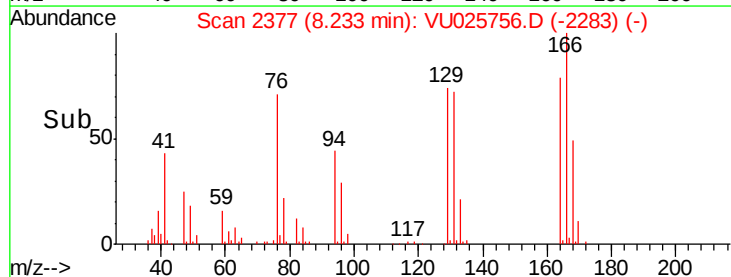
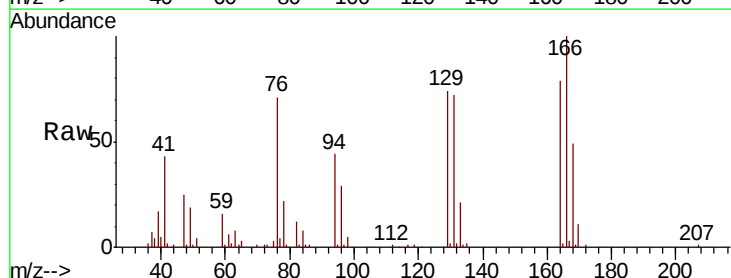
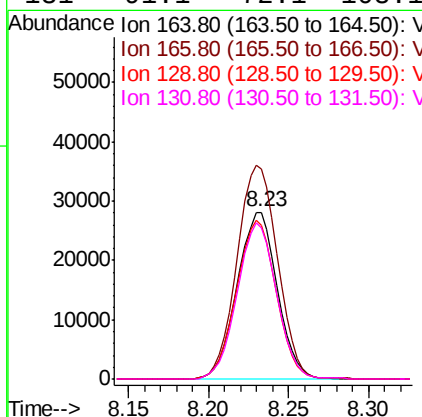
Manual Integrations
APPROVED

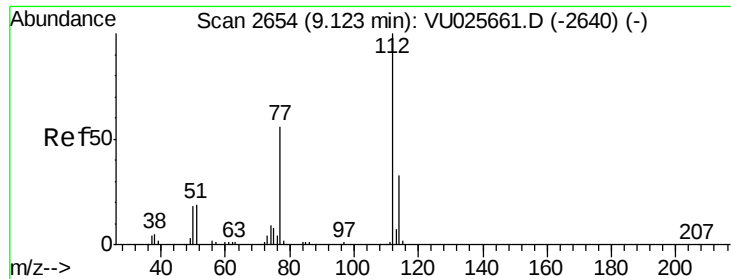
MMDadoda
8/2/2018 9:41:02 AM



#64
Tetrachloroethene
Concen: 20.938 ug/l
RT: 8.23 min Scan# 2377
Delta R.T. 0.00 min
Lab File: VU025756.D
Acq: 31 Jul 2018 22:01

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	48119		
166	125.9	101.1	151.7	
129	92.6	73.0	109.6	
131	91.1	72.1	108.1	





#65

Chlorobenzene

Concen: 20.335 ug/l

RT: 9.12 min Scan# 2653

Delta R.T. -0.00 min

Lab File: VU025756.D

Acq: 31 Jul 2018 22:01

Instrument :

MSVOA_U

ClientSampleId :

VU0801MBSD01

Tot Ion:112 Resp: 136883

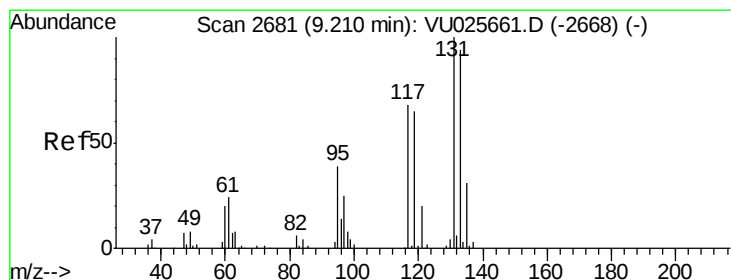
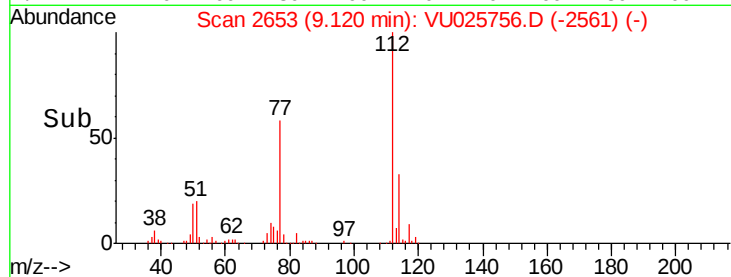
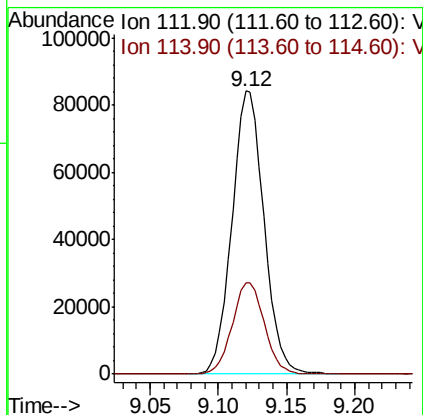
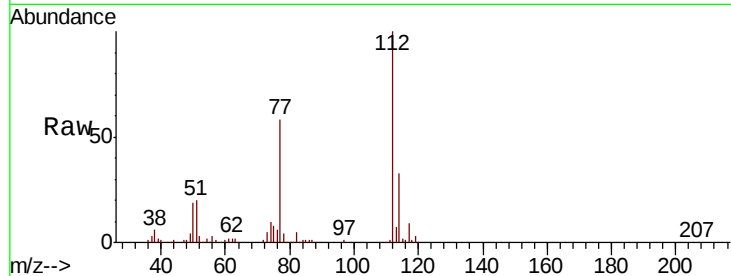
Ion Ratio Lower Upper

112 100

114 32.5 25.8 38.8

Manual Integrations
APPROVED

MMDadoda
8/2/2018 9:41:02 AM



#66

1,1,1,2-Tetrachloroethane

Concen: 21.166 ug/l

RT: 9.21 min Scan# 2681

Delta R.T. 0.00 min

Lab File: VU025756.D

Acq: 31 Jul 2018 22:01

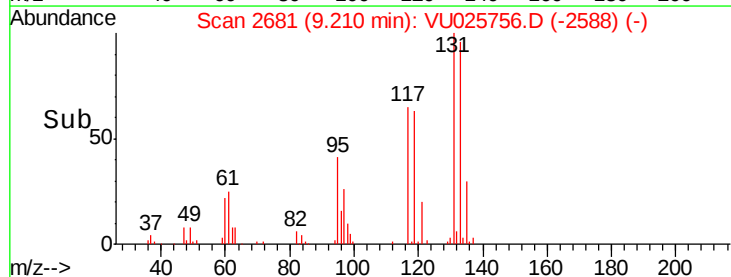
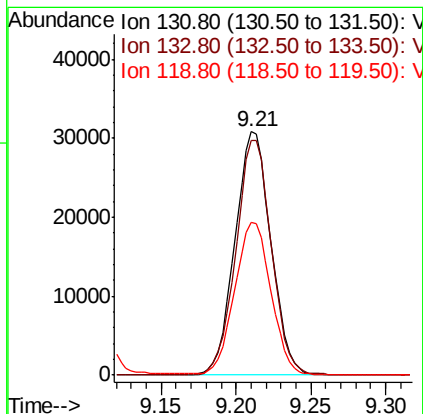
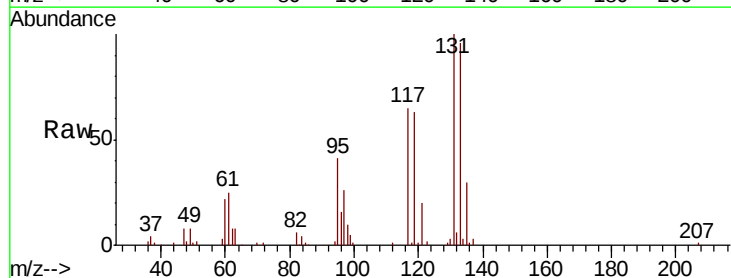
Tgt Ion:131 Resp: 51542

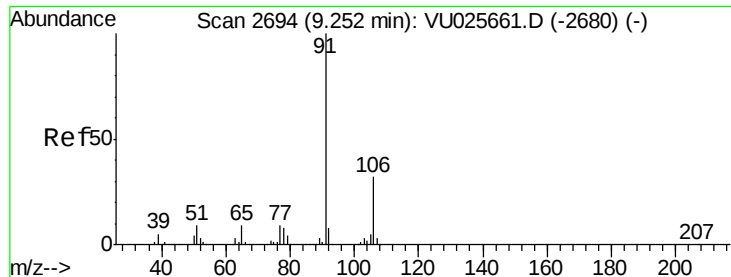
Ion Ratio Lower Upper

131 100

133 95.1 47.8 143.3

119 63.4 31.6 95.0





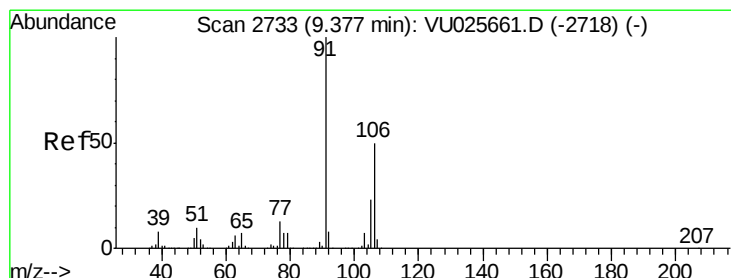
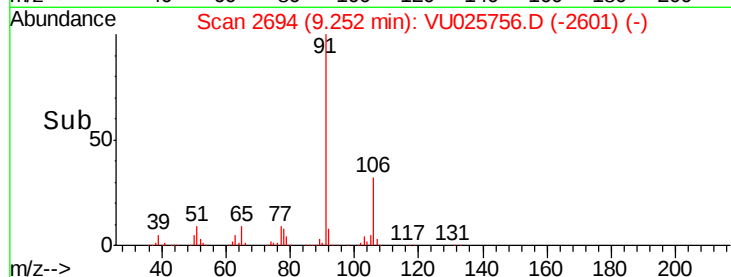
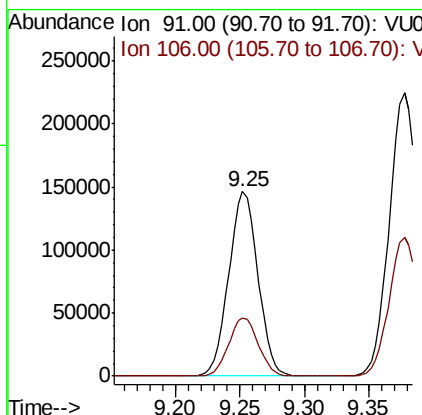
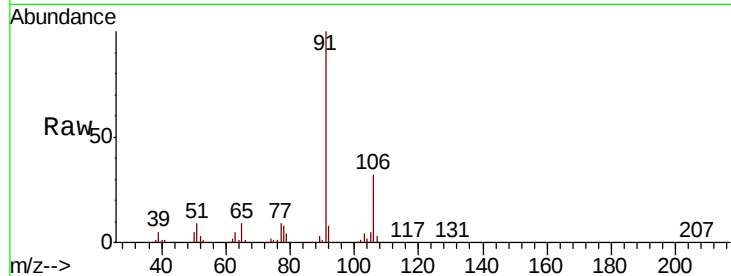
#67
Ethyl Benzene
Concen: 20.641 ug/l
RT: 9.25 min Scan# 2694
Delta R.T. 0.00 min
Lab File: VU025756.D
Acq: 31 Jul 2018 22:01

Instrument :
MSVOA_U
ClientSampleId :
VU0801MBSD01

Tot Ion: 91 Resp: 230153
Ion Ratio Lower Upper
91 100
106 31.7 25.3 37.9

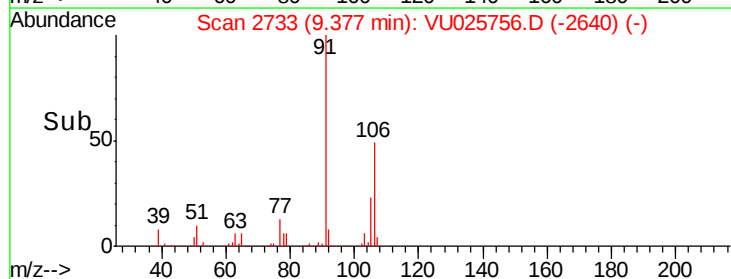
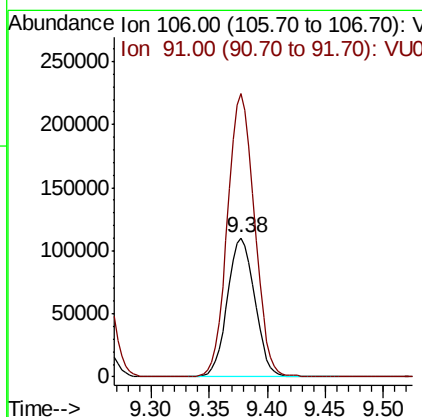
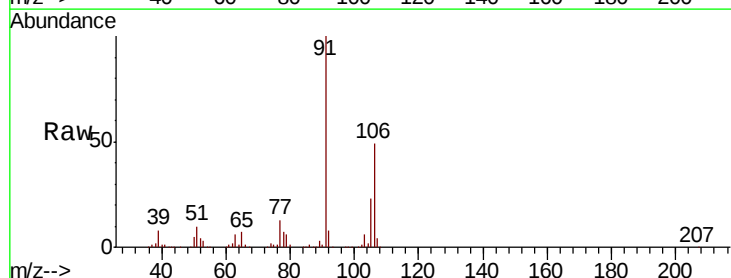
Manual Integrations
APPROVED

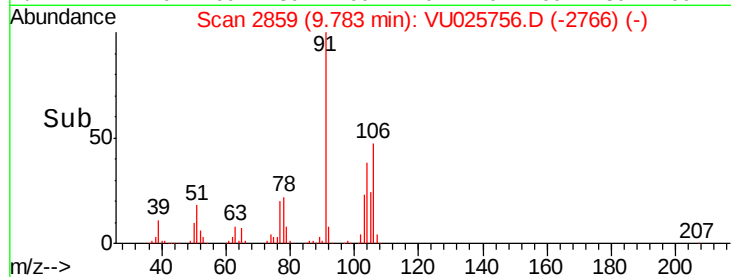
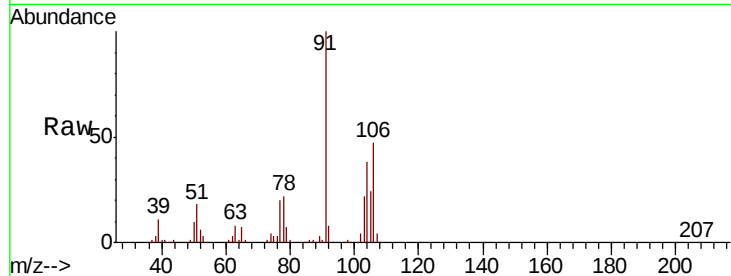
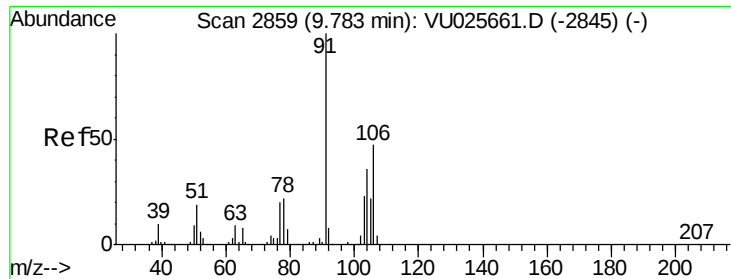
MMDadoda
8/2/2018 9:41:02 AM



#68
m/p-Xylenes
Concen: 42.233 ug/l
RT: 9.38 min Scan# 2733
Delta R.T. 0.00 min
Lab File: VU025756.D
Acq: 31 Jul 2018 22:01

Tgt Ion: 106 Resp: 180793
Ion Ratio Lower Upper
106 100
91 200.2 162.3 243.5





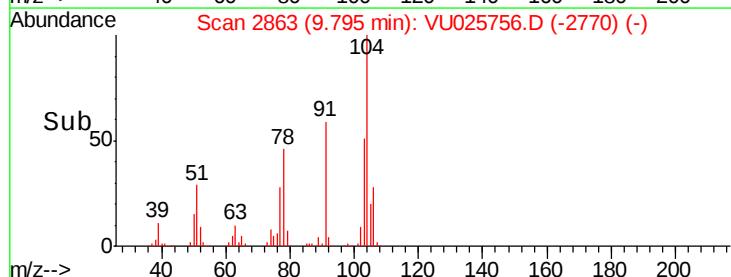
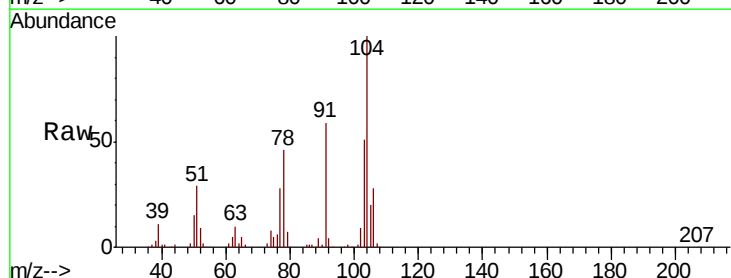
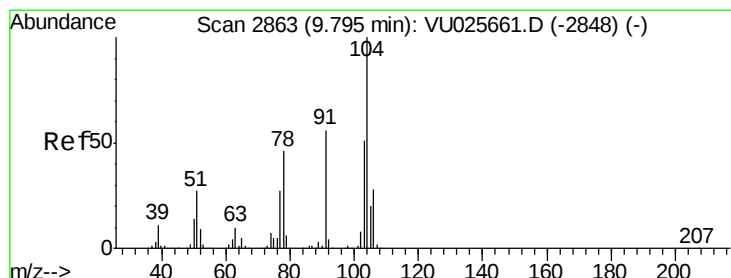
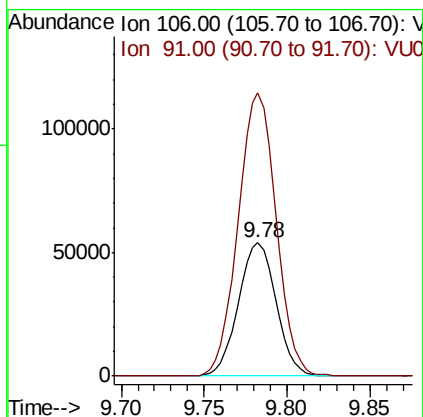
#69
o-Xylene
Concen: 20.466 ug/l
RT: 9.78 min Scan# 2859
Delta R.T. 0.00 min
Lab File: VU025756.D
Acq: 31 Jul 2018 22:01

Tot Ion:106 Resp: 85627
Ion Ratio Lower Upper
106 100
91 214.3 105.3 315.8

Instrument :
MSVOA_U
ClientSampleId :
VU0801MBSD01

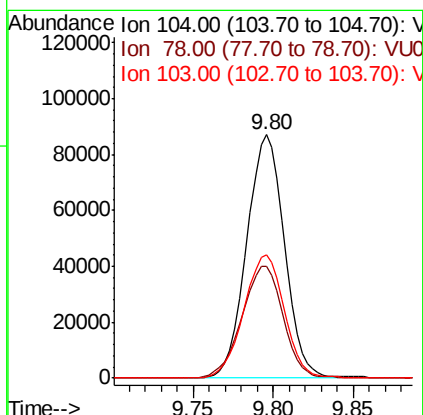
Manual Integrations
APPROVED

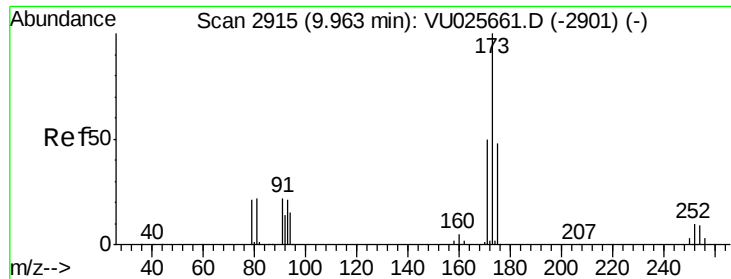
MMDadoda
8/2/2018 9:41:02 AM



#70
Styrene
Concen: 20.769 ug/l
RT: 9.80 min Scan# 2863
Delta R.T. 0.00 min
Lab File: VU025756.D
Acq: 31 Jul 2018 22:01

Tgt Ion:104 Resp: 140353
Ion Ratio Lower Upper
104 100
78 50.2 41.6 62.4
103 54.6 44.6 66.8





#71

Bromoform

Concen: 20.620 ug/l

RT: 9.96 min Scan# 2915

Delta R.T. 0.00 min

Lab File: VU025756.D

Acq: 31 Jul 2018 22:01

Instrument :

MSVOA_U

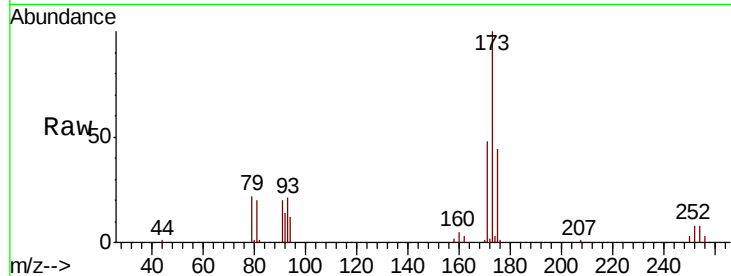
ClientSampleId :

VU0801MBSD01

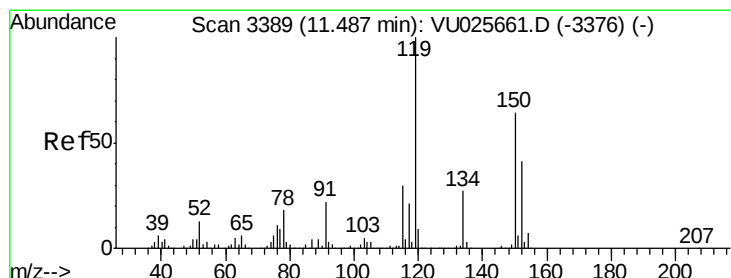
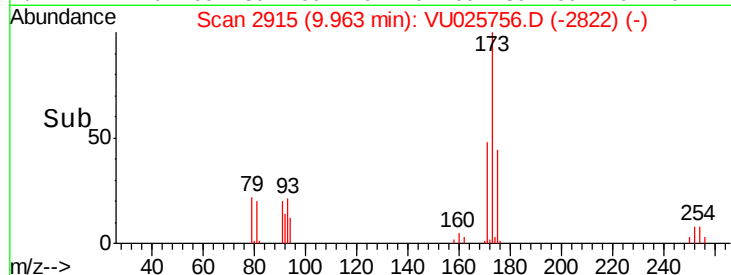
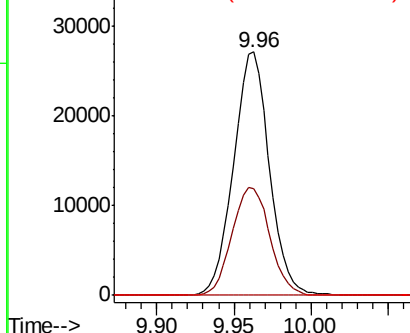
Tot Ion:	173	Resp:	43540
Ion Ratio	Lower	Upper	
173	100		
175	46.7	24.0	72.0
254	0.0	0.0	0.0

Manual Integrations
APPROVED

MMDadoda
8/2/2018 9:41:02 AM



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

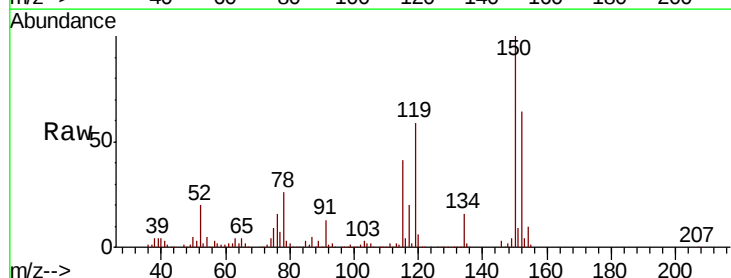
RT: 11.49 min Scan# 3389

Delta R.T. 0.00 min

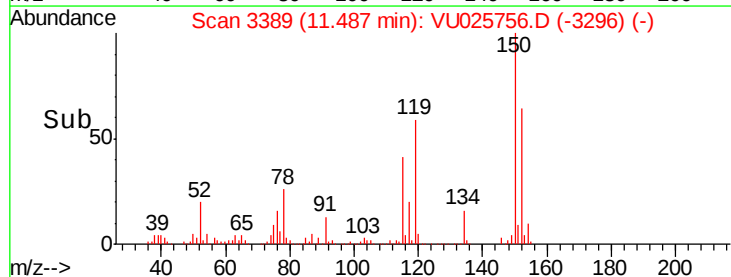
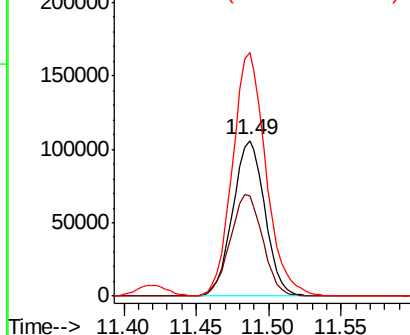
Lab File: VU025756.D

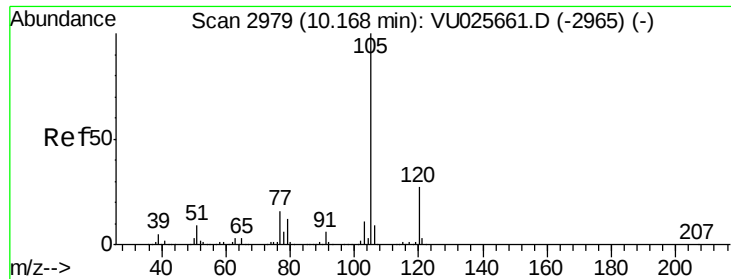
Acq: 31 Jul 2018 22:01

Tgt Ion:	152	Resp:	162378
Ion Ratio	Lower	Upper	
152	100		
115	66.5	40.1	120.3
150	163.3	0.0	351.4



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 21.258 ug/l

RT: 10.17 min Scan# 2979

Delta R.T. 0.00 min

Lab File: VU025756.D

Acq: 31 Jul 2018 22:01

Instrument :

MSVOA_U

ClientSampleId :

VU0801MBSD01

Tot Ion: 105 Resp: 235594

Ion Ratio Lower Upper

105 100

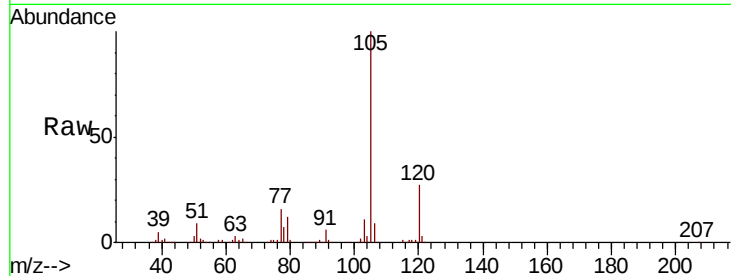
120 27.1 13.5 40.5

Manual Integrations

APPROVED

MMDadoda

8/2/2018 9:41:02 AM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

10.17

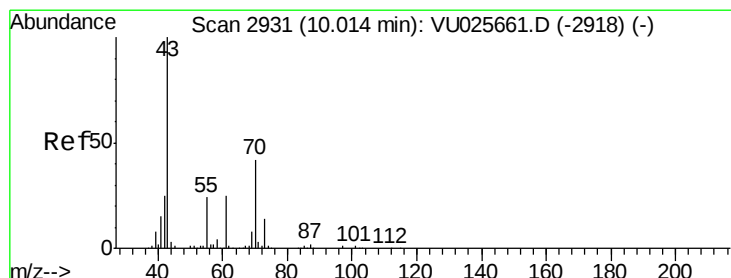
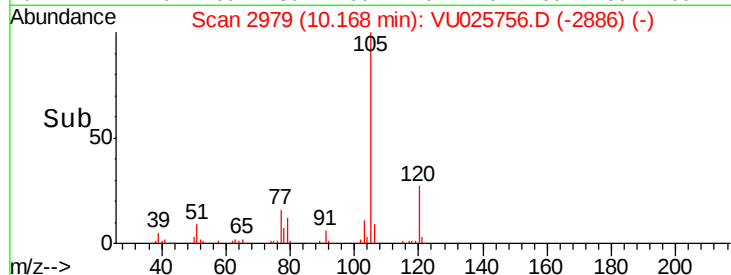
150000

100000

50000

0

Time-->



#74

N-ethyl acetate

Concen: 20.746 ug/l

RT: 10.01 min Scan# 2931

Delta R.T. 0.00 min

Lab File: VU025756.D

Acq: 31 Jul 2018 22:01

Tgt Ion: 43 Resp: 93864

Ion Ratio Lower Upper

43 100

70 42.3 33.4 50.2

55 24.7 19.0 28.6

61 24.6 19.3 28.9

Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 70.00 (69.70 to 70.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

80000

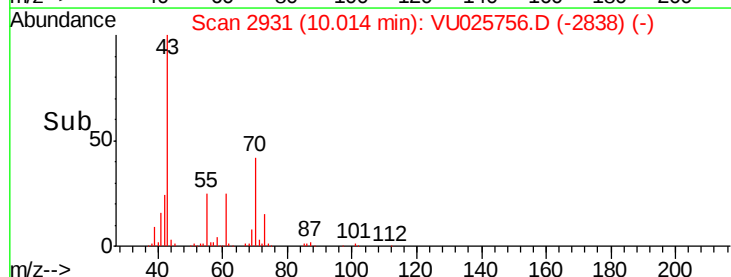
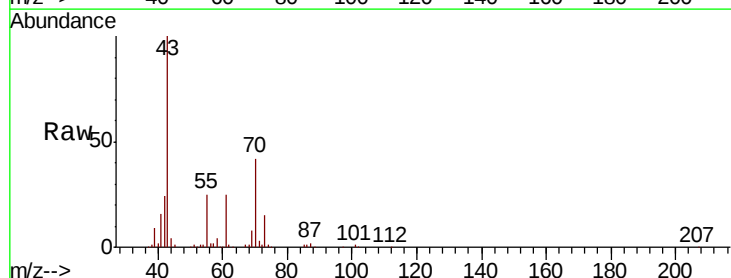
60000

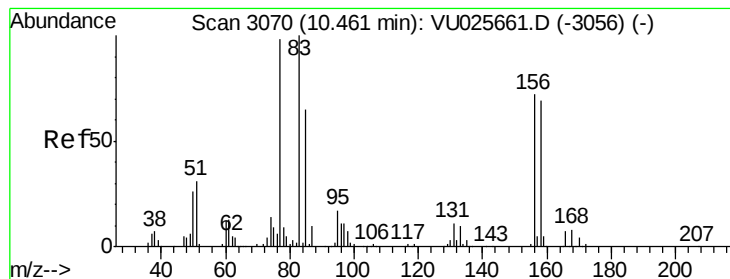
40000

20000

0

Time-->





#75

1,1,2,2-Tetrachloroethane

Concen: 20.554 ug/l

RT: 10.46 min Scan# 3070

Delta R.T. 0.00 min

Lab File: VU025756.D

Acq: 31 Jul 2018 22:01

Instrument :

MSVOA_U

ClientSampleId :

VU0801MBSD01

Tot Ion: 83 Resp: 78772

Ion Ratio Lower Upper

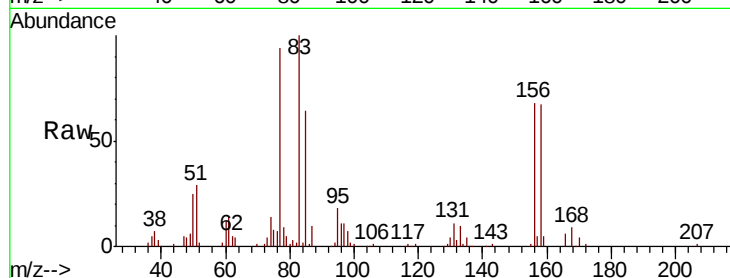
83 100

131 10.8 5.5 16.4

85 64.7 31.6 94.8

Manual Integrations
APPROVED

MMDadoda
8/2/2018 9:41:02 AM

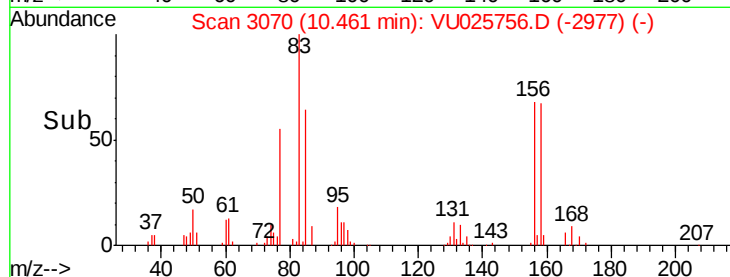


Abundance Ion 82.90 (82.60 to 83.60): VU025756.D (-2977) (-)

Ion 130.80 (130.50 to 131.50): VU025756.D (-2977) (-)

Ion 84.90 (84.60 to 85.60): VU025756.D (-2977) (-)

Time-->



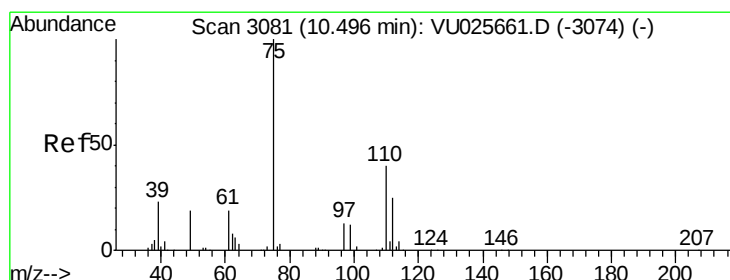
Abundance

Ion 82.90 (82.60 to 83.60): VU025756.D (-2977) (-)

Ion 130.80 (130.50 to 131.50): VU025756.D (-2977) (-)

Ion 84.90 (84.60 to 85.60): VU025756.D (-2977) (-)

Time-->



#76

1,2,3-Trichloropropane

Concen: 19.831 ug/l m

RT: 10.50 min Scan# 3081

Delta R.T. 0.00 min

Lab File: VU025756.D

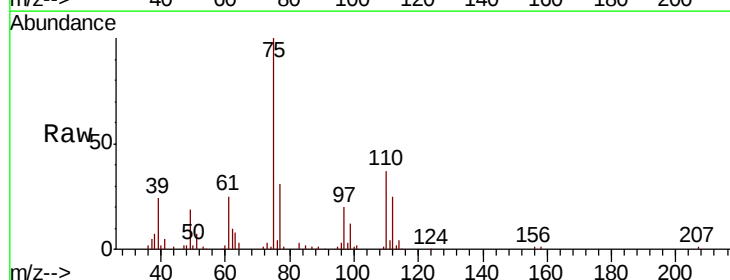
Acq: 31 Jul 2018 22:01

Tgt Ion: 75 Resp: 70948

Ion Ratio Lower Upper

75 100

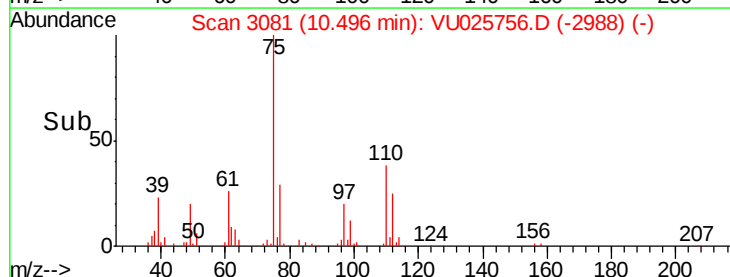
77 38.4 20.4 61.3



Abundance Ion 74.90 (74.60 to 75.60): VU025756.D (-2988) (-)

Ion 77.00 (76.70 to 77.70): VU025756.D (-2988) (-)

Time-->

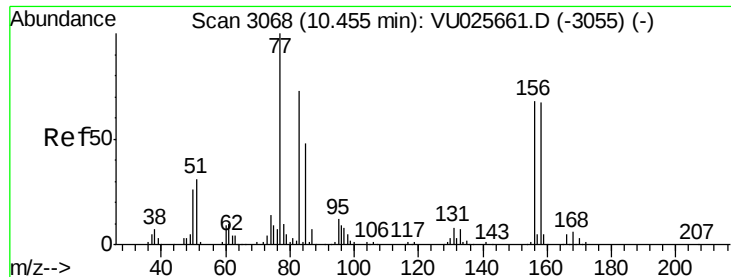


Abundance

Ion 74.90 (74.60 to 75.60): VU025756.D (-2988) (-)

Ion 77.00 (76.70 to 77.70): VU025756.D (-2988) (-)

Time-->



#77

Bromobenzene

Concen: 21.039 ug/l

RT: 10.45 min Scan# 3068

Delta R.T. 0.00 min

Lab File: VU025756.D

Acq: 31 Jul 2018 22:01

Instrument :

MSVOA_U

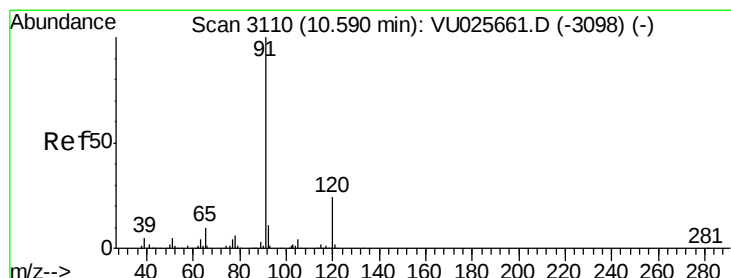
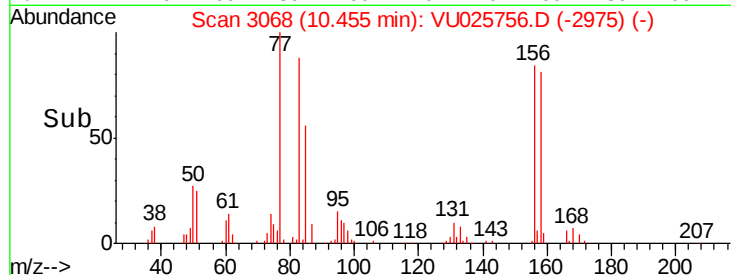
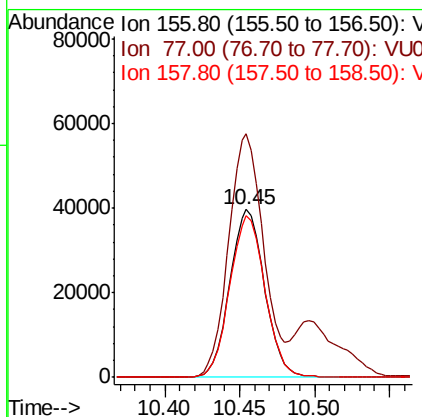
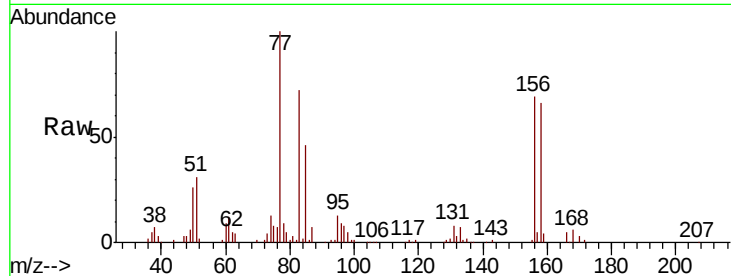
ClientSampleId :

VU0801MBS01

Tot Ion	Ratio	Lower	Upper
156	100		
77	145.4	73.8	221.4
158	97.6	48.0	144.0

Manual Integrations
APPROVED

MMDadoda
8/2/2018 9:41:02 AM



#78

n-propylbenzene

Concen: 21.088 ug/l

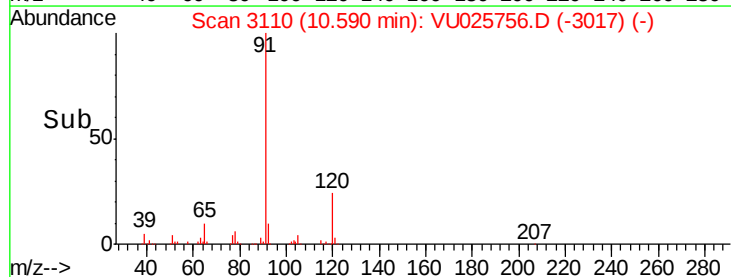
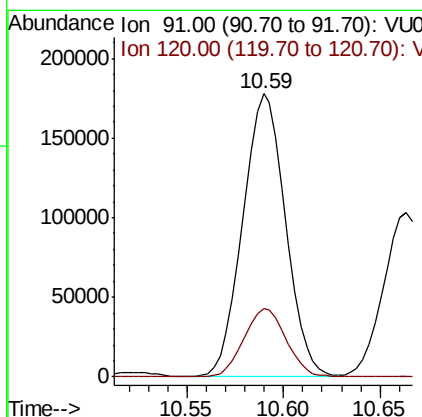
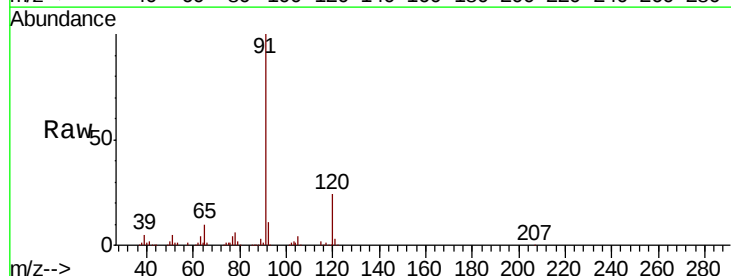
RT: 10.59 min Scan# 3110

Delta R.T. 0.00 min

Lab File: VU025756.D

Acq: 31 Jul 2018 22:01

Tgt Ion	Ratio	Lower	Upper
91	100		
120	23.8	11.8	35.3





#79

2-Chlorotoluene

Concen: 21.354 ug/l

RT: 10.66 min Scan# 3133

Delta R.T. 0.00 min

Lab File: VU025756.D

Acq: 31 Jul 2018 22:01

Instrument :

MSVOA_U

ClientSampleId :

VU0801MBSD01

Tot Ion: 91 Resp: 161790

Ion Ratio Lower Upper

91 100

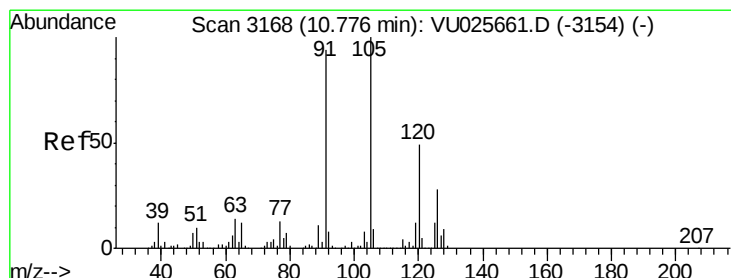
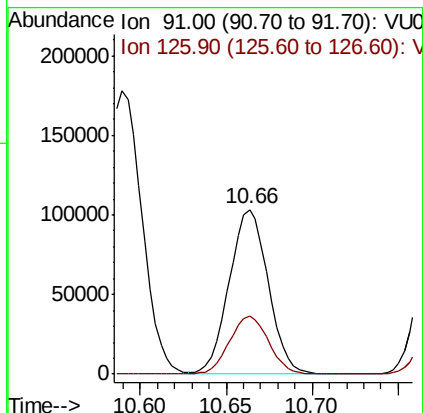
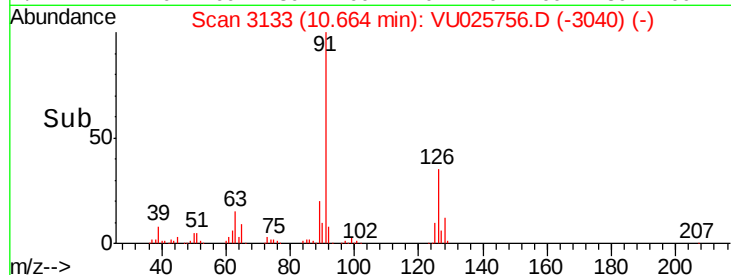
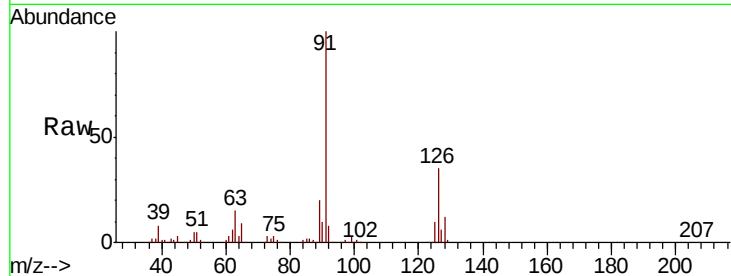
126 35.6 17.5 52.6

Manual Integrations

APPROVED

MMDadoda

8/2/2018 9:41:02 AM



#80

1,3,5-Trimethylbenzene

Concen: 21.225 ug/l

RT: 10.78 min Scan# 3168

Delta R.T. 0.00 min

Lab File: VU025756.D

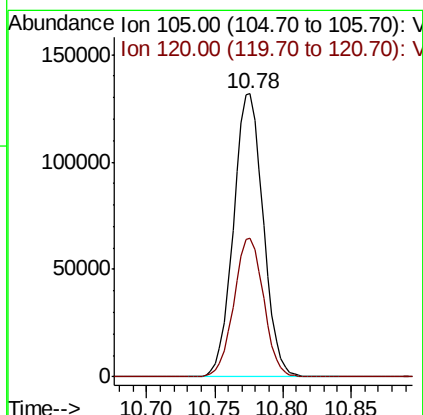
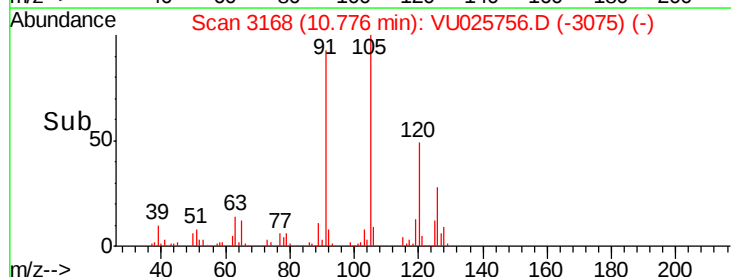
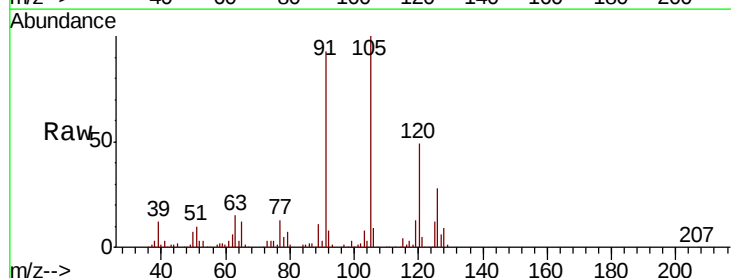
Acq: 31 Jul 2018 22:01

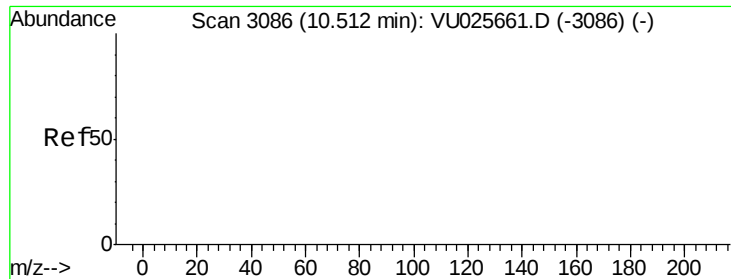
Tgt Ion: 105 Resp: 199776

Ion Ratio Lower Upper

105 100

120 49.1 24.1 72.2





#81

trans-1,4-Dichloro-2-butene

Concen: 13.518 ug/l m

RT: 10.52 min Scan# 3087

Delta R.T. 0.02 min

Lab File: VU025756.D

Acq: 31 Jul 2018 22:01

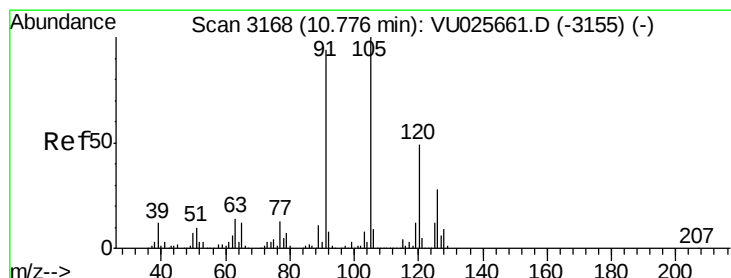
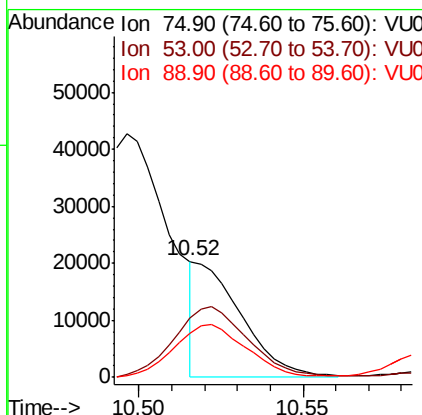
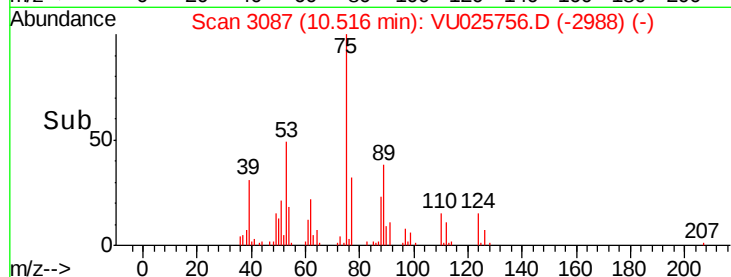
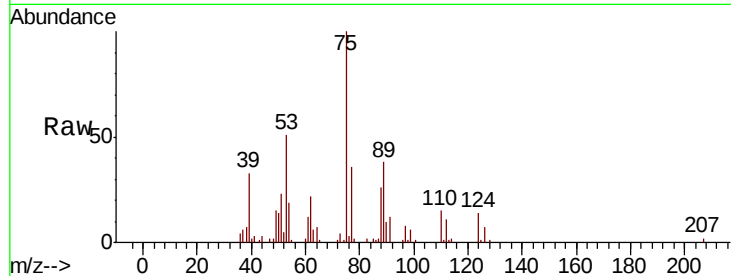
Instrument :
MSVOA_U

ClientSampleId :
VU0801MBSD01

Tot Ion	Ratio	Lower	Upper
75	100		
53	0.0	0.0	0.0
89	0.0	0.0	0.0

Manual Integrations
APPROVED

MMDadoda
8/2/2018 9:41:02 AM



#82

4-Chlorotoluene

Concen: 21.409 ug/l

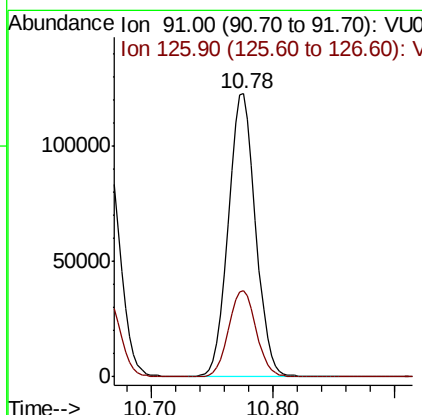
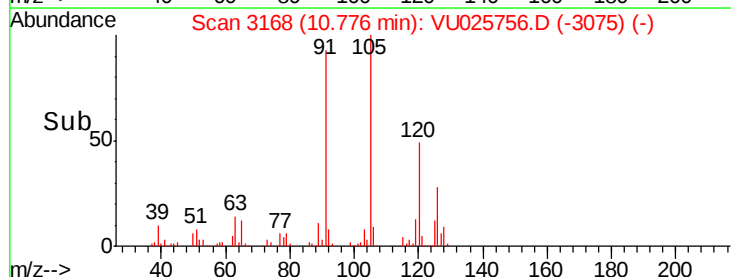
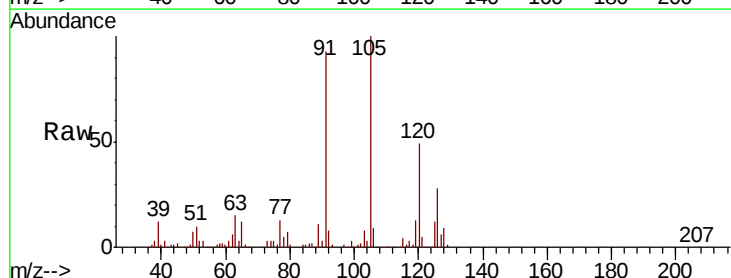
RT: 10.78 min Scan# 3168

Delta R.T. 0.00 min

Lab File: VU025756.D

Acq: 31 Jul 2018 22:01

Tgt Ion	Ratio	Lower	Upper
91	100		
126	31.2	15.3	45.9





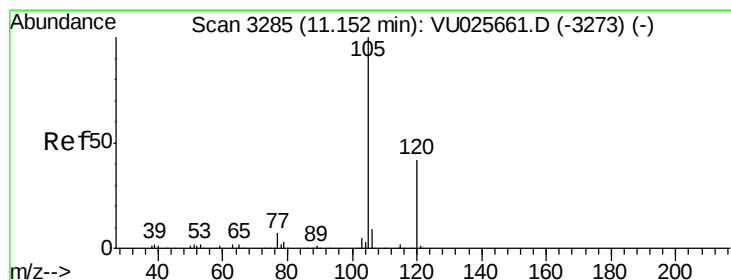
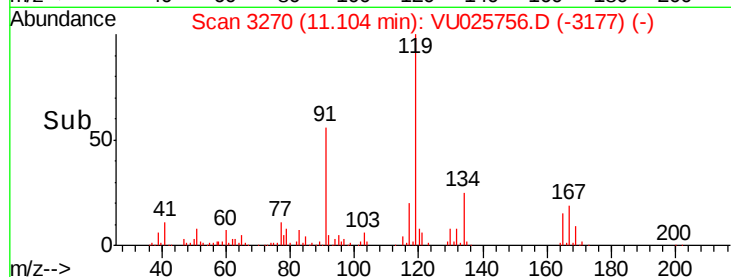
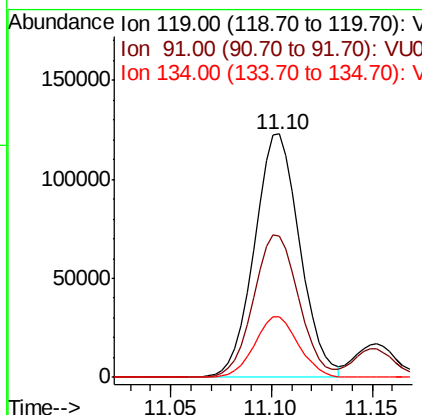
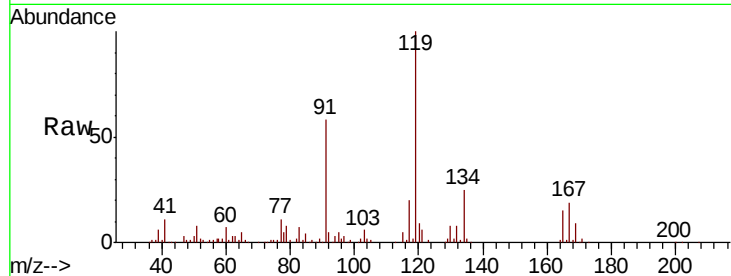
#83
 tert-Butylbenzene
 Concen: 20.645 ug/l
 RT: 11.10 min Scan# 3270
 Delta R.T. 0.00 min
 Lab File: VU025756.D
 Acq: 31 Jul 2018 22:01

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0801MBSD01

Tot Ion	Ratio	Resp	Lower	Upper
119	100	193060		
91	58.5	29.7	89.1	
134	24.3	11.5	34.5	

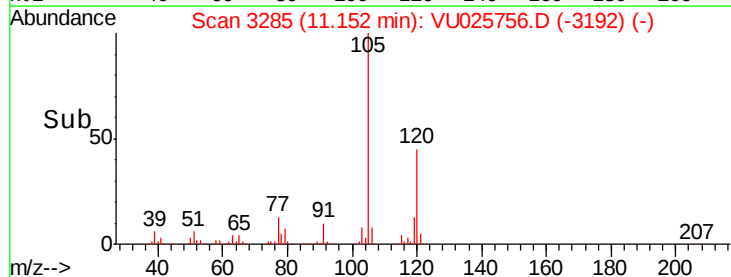
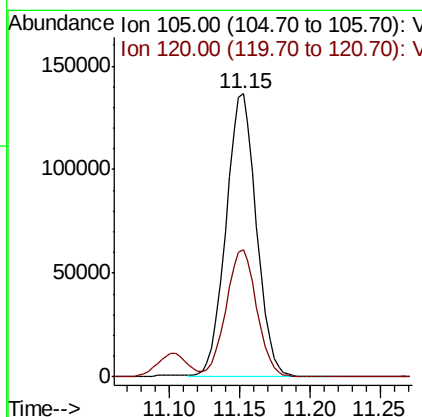
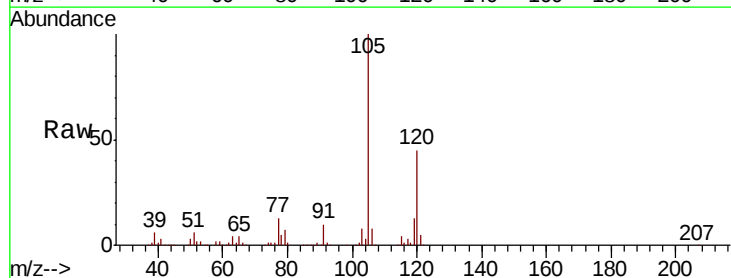
Manual Integrations
 APPROVED

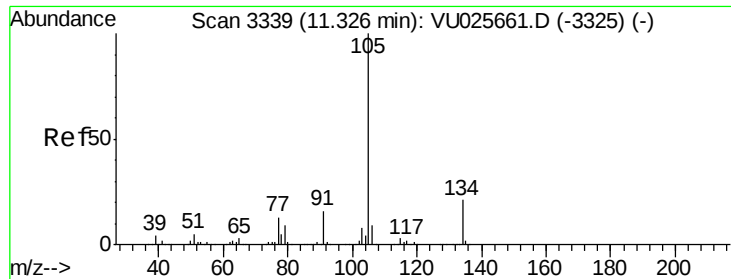
MMDadoda
 8/2/2018 9:41:02 AM



#84
 1,2,4-Trimethylbenzene
 Concen: 21.495 ug/l
 RT: 11.15 min Scan# 3285
 Delta R.T. 0.00 min
 Lab File: VU025756.D
 Acq: 31 Jul 2018 22:01

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	205015		
120	45.6	22.3	66.8	





#85

sec-Butylbenzene

Concen: 21.025 ug/l

RT: 11.33 min Scan# 3339

Delta R.T. 0.00 min

Lab File: VU025756.D

Acq: 31 Jul 2018 22:01

Instrument :

MSVOA_U

ClientSampled :

VU0801MBSD01

Tot Ion:105 Resp: 240052

Ion Ratio Lower Upper

105 100

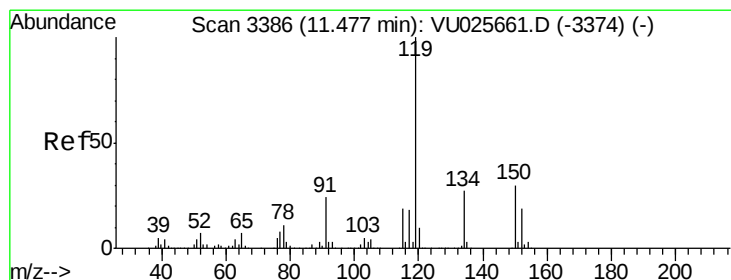
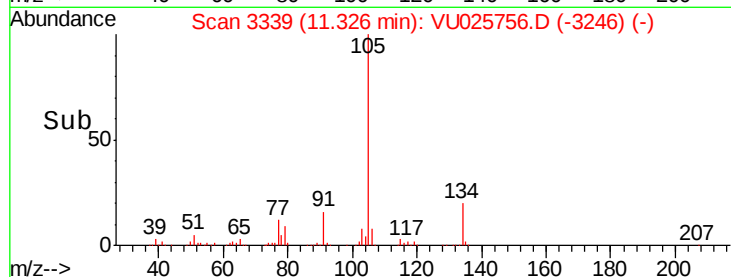
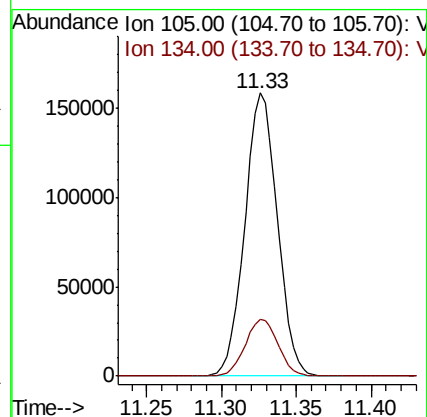
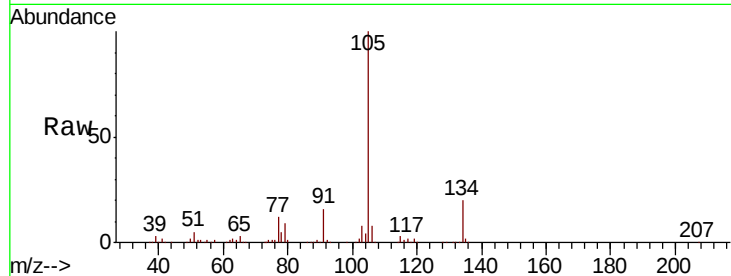
134 20.3 10.3 30.8

Manual Integrations

APPROVED

MMDadoda

8/2/2018 9:41:02 AM



#86

p-Isopropyltoluene

Concen: 21.044 ug/l

RT: 11.48 min Scan# 3386

Delta R.T. 0.00 min

Lab File: VU025756.D

Acq: 31 Jul 2018 22:01

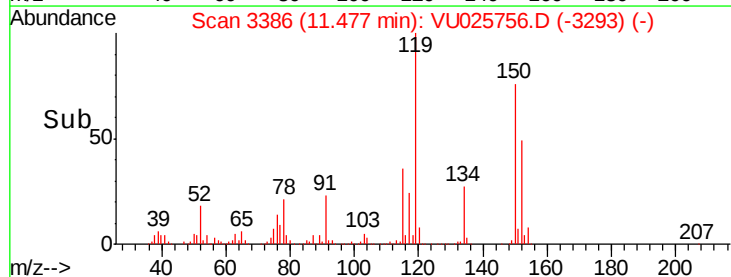
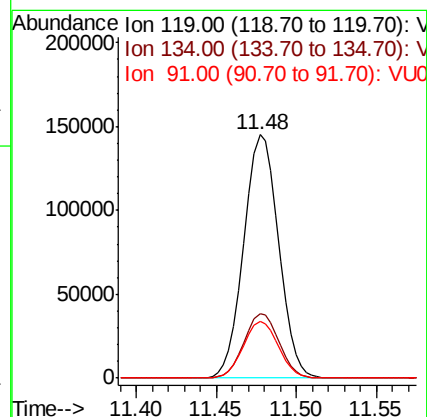
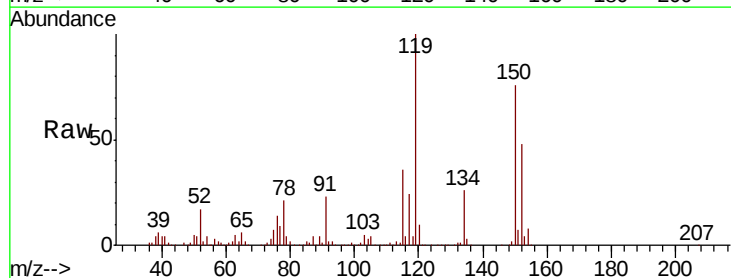
Tgt Ion:119 Resp: 215145

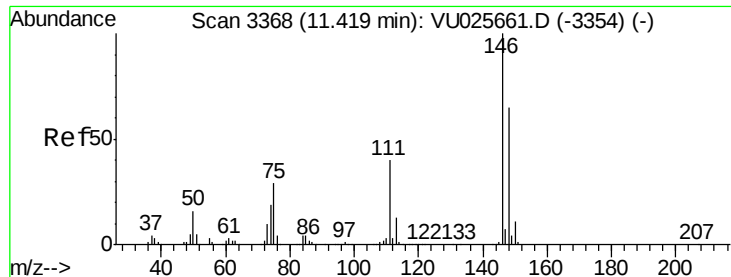
Ion Ratio Lower Upper

119 100

134 26.5 13.2 39.5

91 23.6 12.0 36.1





#87

1,3-Dichlorobenzene

Concen: 20.914 ug/l

RT: 11.42 min Scan# 3368

Delta R.T. 0.00 min

Lab File: VU025756.D

Acq: 31 Jul 2018 22:01

Instrument :

MSVOA_U

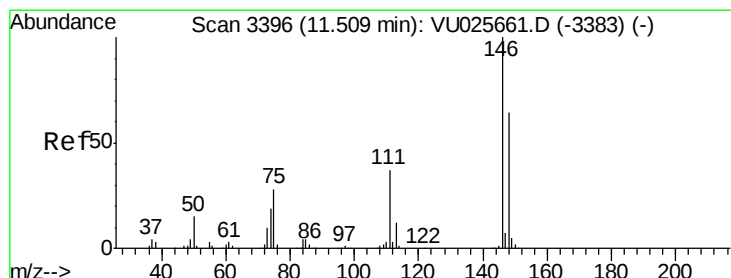
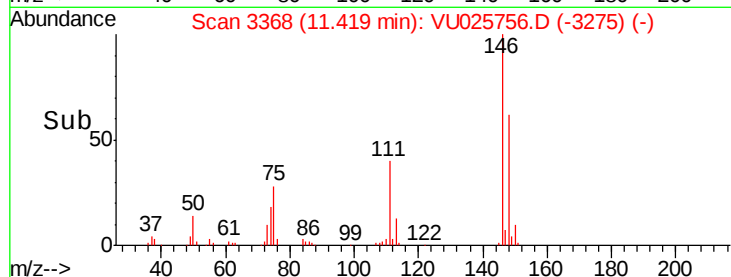
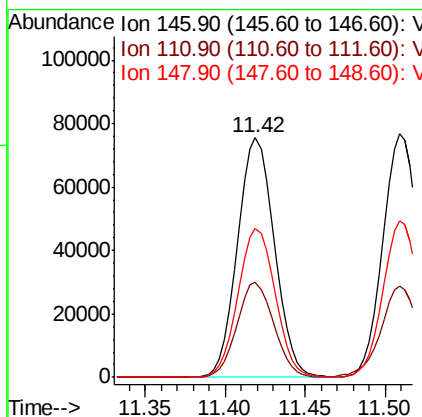
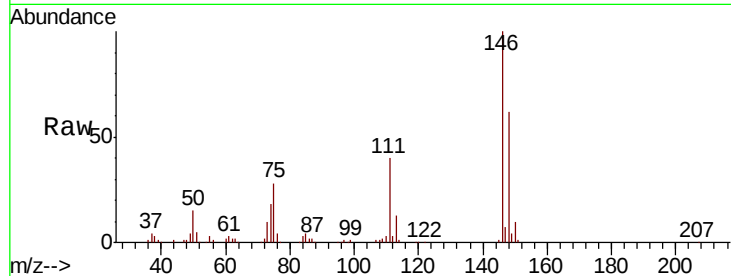
ClientSampleId :

VU0801MBSD01

Tot Ion:	146	Resp:	118668
Ion Ratio	Lower	Upper	
146	100		
111	39.4	19.7	59.1
148	62.6	32.1	96.3

Manual Integrations
APPROVED

MMDadoda
8/2/2018 9:41:02 AM



#88

1,4-Dichlorobenzene

Concen: 20.375 ug/l

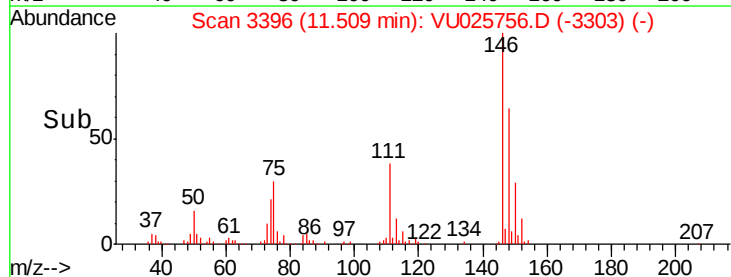
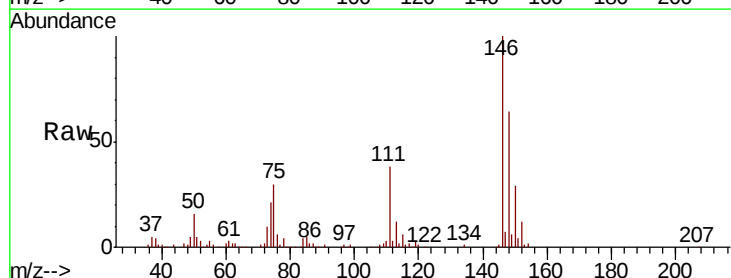
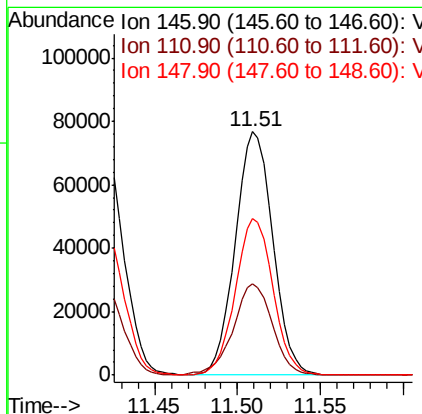
RT: 11.51 min Scan# 3396

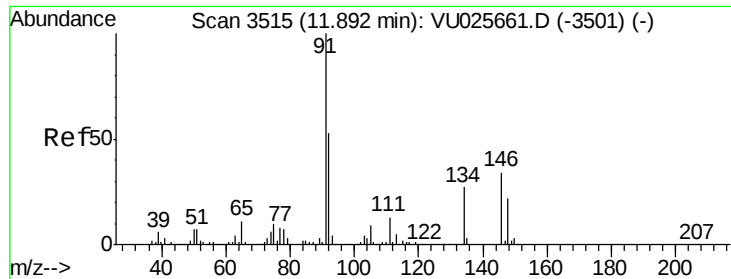
Delta R.T. 0.00 min

Lab File: VU025756.D

Acq: 31 Jul 2018 22:01

Tgt Ion:	146	Resp:	120512
Ion Ratio	Lower	Upper	
146	100		
111	39.2	19.4	58.1
148	64.7	31.7	95.1





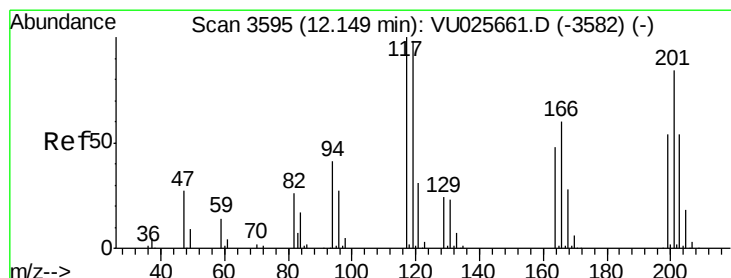
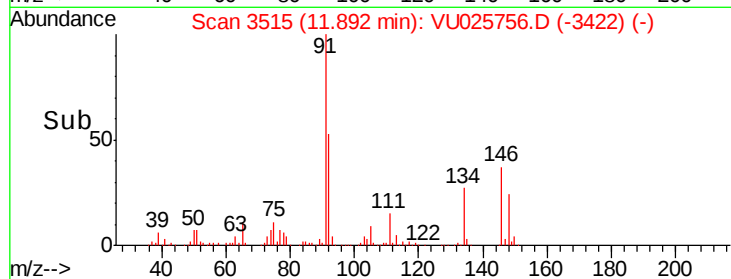
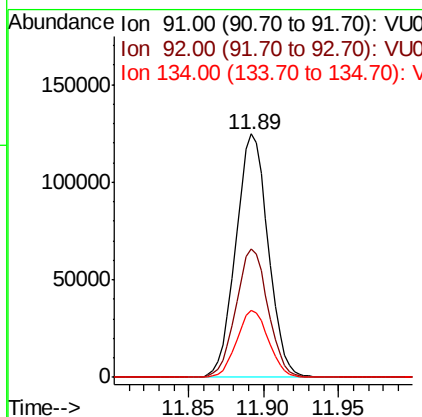
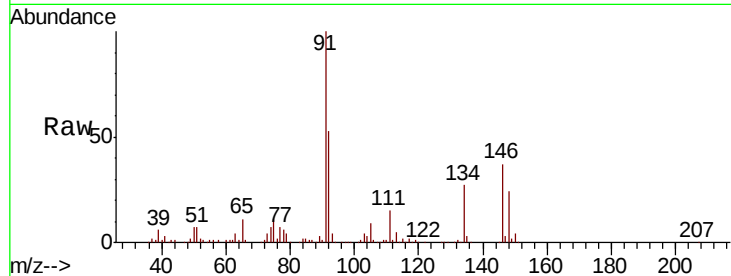
#89
n-Butylbenzene
Concen: 19.888 ug/l
RT: 11.89 min Scan# 3515
Delta R.T. 0.00 min
Lab File: VU025756.D
Acq: 31 Jul 2018 22:01

Instrument :
MSVOA_U
ClientSampleId :
VU0801MBSD01

Tot Ion	Ratio	Lower	Upper
91	100		
92	52.5	26.5	79.5
134	27.0	13.6	40.7

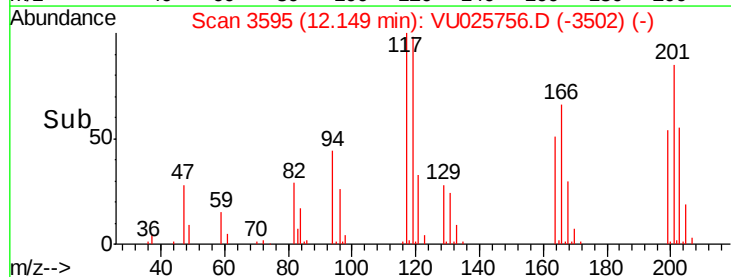
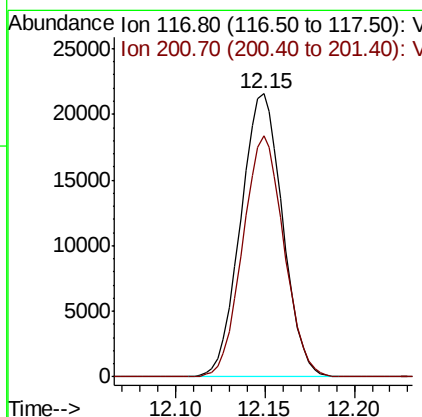
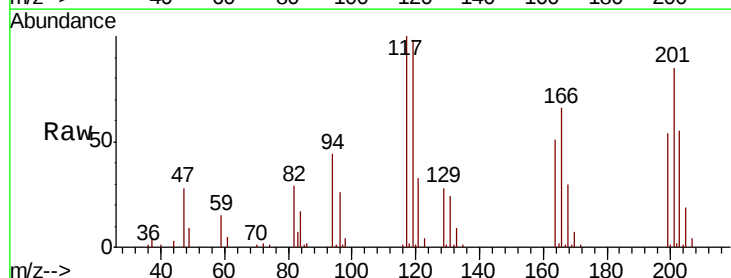
Manual Integrations
APPROVED

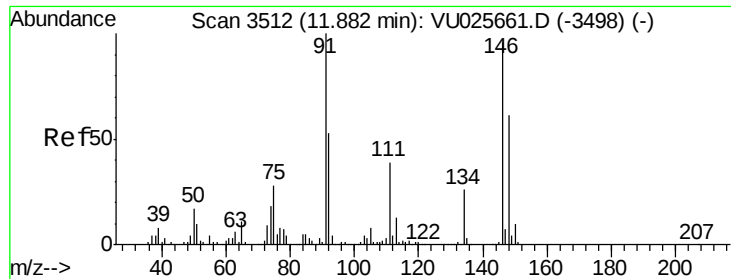
MMDadoda
8/2/2018 9:41:02 AM



#90
Hexachloroethane
Concen: 19.475 ug/l
RT: 12.15 min Scan# 3595
Delta R.T. 0.00 min
Lab File: VU025756.D
Acq: 31 Jul 2018 22:01

Tgt Ion	Ratio	Lower	Upper
117	100		
201	83.7	42.5	127.6





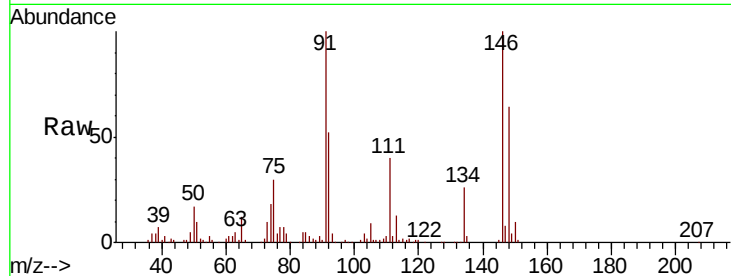
#91
 1,2-Dichlorobenzene
 Concen: 21.017 ug/l
 RT: 11.88 min Scan# 3512
 Delta R.T. 0.00 min
 Lab File: VU025756.D
 Acq: 31 Jul 2018 22:01

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0801MBSD01

Tot Ion	Ratio	Lower	Upper
146	100		
111	40.2	20.6	61.8
148	63.4	31.5	94.5

Manual Integrations
 APPROVED

MMDadoda
 8/2/2018 9:41:02 AM

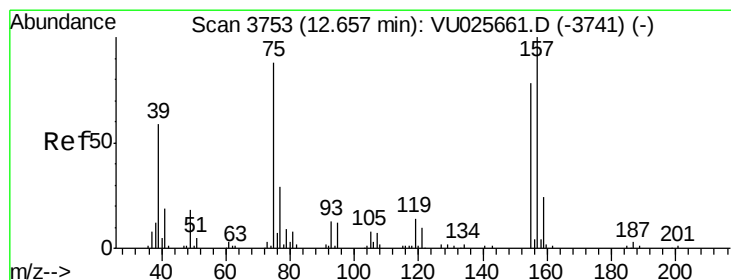
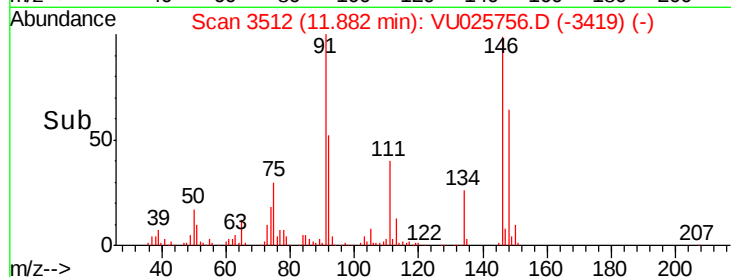
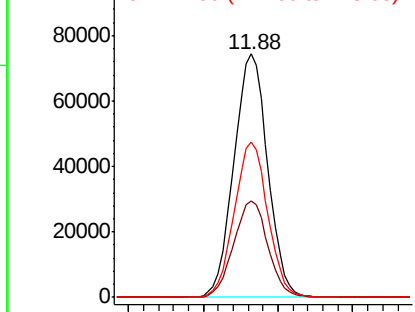


Abundance

Ion 145.90 (145.60 to 146.60): V

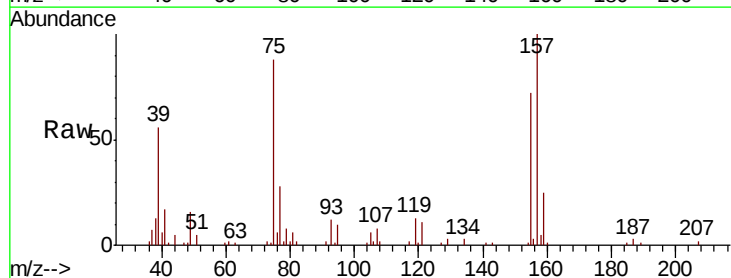
Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 20.650 ug/l
 RT: 12.66 min Scan# 3753
 Delta R.T. 0.00 min
 Lab File: VU025756.D
 Acq: 31 Jul 2018 22:01

Tgt Ion	Ratio	Lower	Upper
75	100		
155	87.4	44.5	133.3
157	117.9	57.0	170.8

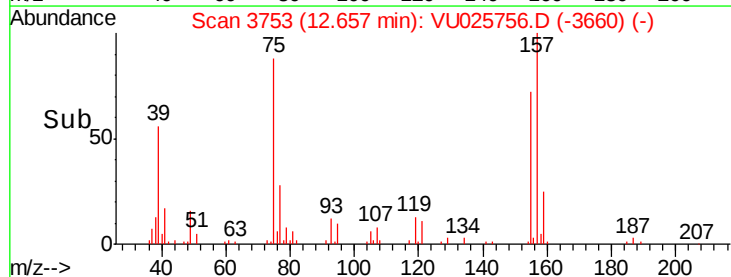
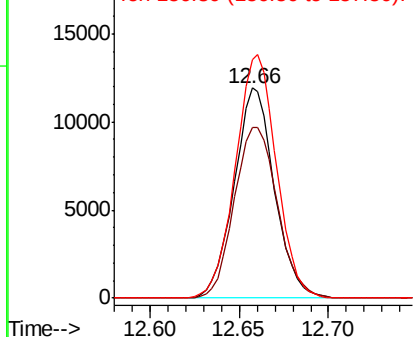


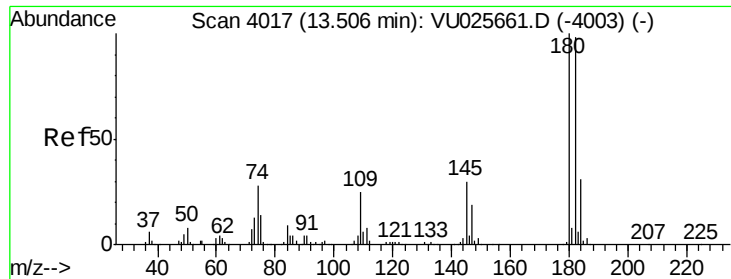
Abundance

Ion 74.90 (74.60 to 75.60): VU0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V





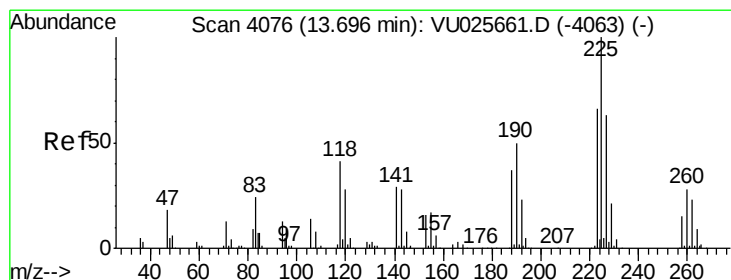
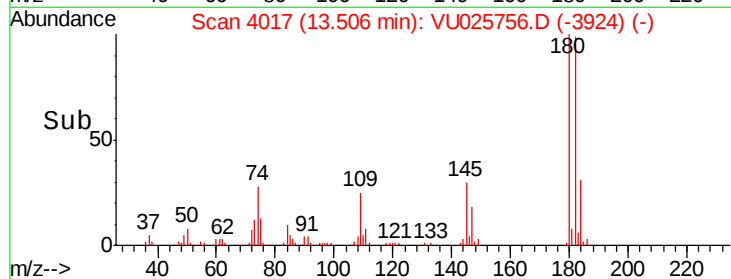
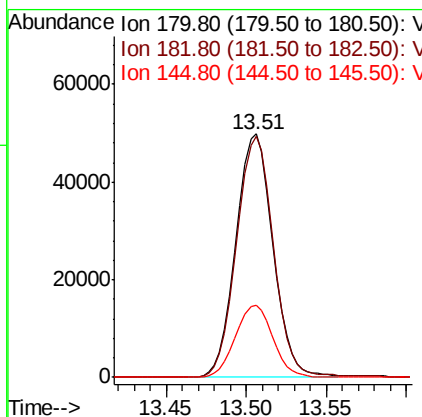
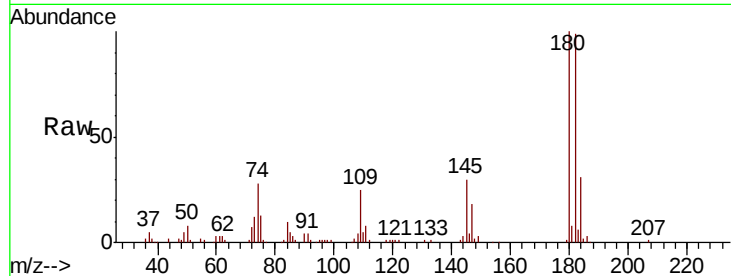
#93
 1,2,4-Trichlorobenzene
 Concen: 21.028 ug/l
 RT: 13.51 min Scan# 4017
 Delta R.T. 0.00 min
 Lab File: VU025756.D
 Acq: 31 Jul 2018 22:01

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0801MBSD01

Tot Ion	Ratio	Lower	Upper
180	100		
182	98.7	47.3	141.9
145	29.7	14.9	44.7

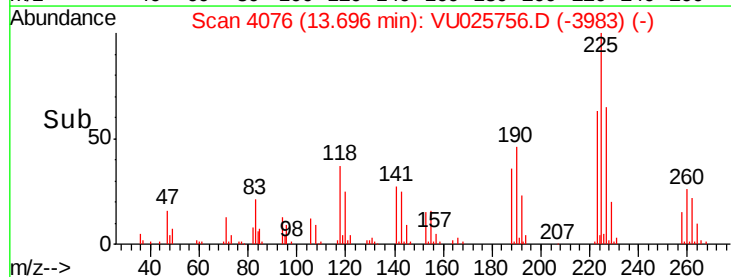
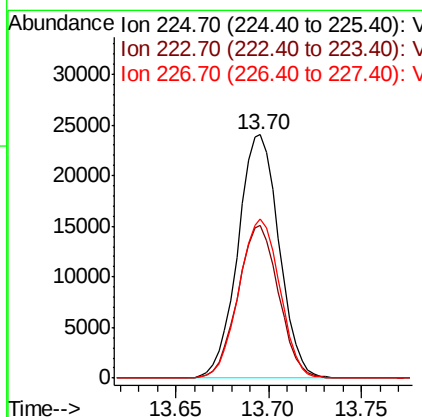
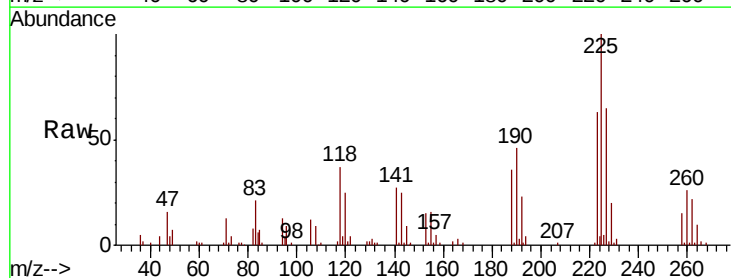
Manual Integrations
 APPROVED

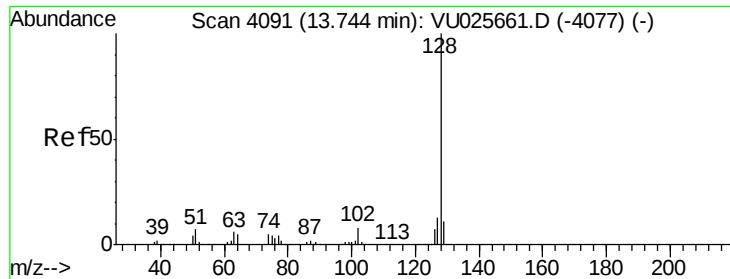
MMDadoda
 8/2/2018 9:41:02 AM



#94
 Hexachlorobutadiene
 Concen: 18.748 ug/l
 RT: 13.70 min Scan# 4076
 Delta R.T. 0.00 min
 Lab File: VU025756.D
 Acq: 31 Jul 2018 22:01

Tgt Ion	Ratio	Lower	Upper
225	100		
223	62.1	31.9	95.7
227	65.0	32.3	96.9





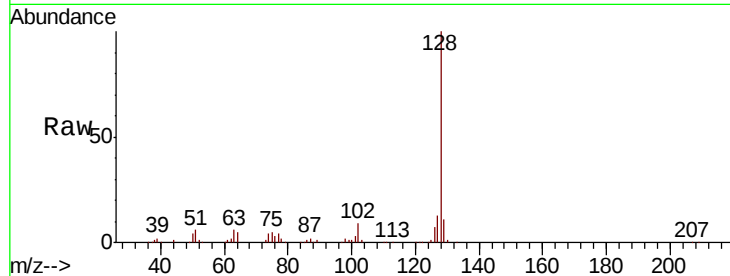
#95
Naphthalene
Concen: 20.889 ug/l
RT: 13.74 min Scan# 4091
Delta R.T. 0.00 min
Lab File: VU025756.D
Acq: 31 Jul 2018 22:01

Instrument :
MSVOA_U
ClientSampleId :
VU0801MBSD01

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.5	15.7
129	10.8	8.3	12.5

Manual Integrations
APPROVED

MMDadoda
8/2/2018 9:41:02 AM

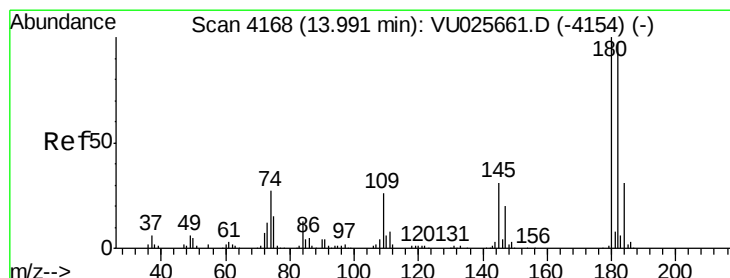
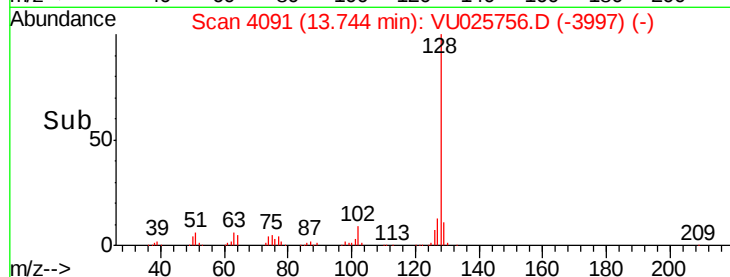
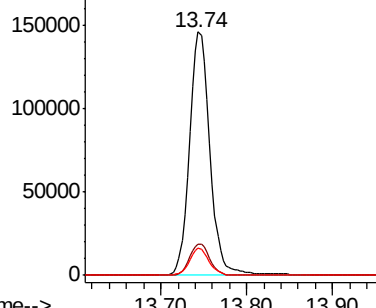


Abundance

Ion 128.00 (127.70 to 128.70): V

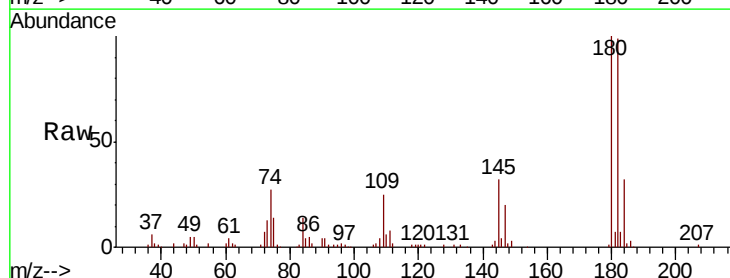
Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96
1,2,3-Trichlorobenzene
Concen: 21.477 ug/l
RT: 13.99 min Scan# 4167
Delta R.T. -0.00 min
Lab File: VU025756.D
Acq: 31 Jul 2018 22:01

Tgt Ion	Ratio	Lower	Upper
180	100		
182	97.0	47.8	143.3
145	31.1	15.6	46.8



Abundance

Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

