

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU120618\
 Data File : VU028501.D
 Acq On : 06 Dec 2018 15:26
 Operator : MD/SY
 Sample : VU1206WBS01
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1206WBS01

Manual Integrations
 APPROVED

MMDadoda
 12/7/2018 10:35:15 AM

Quant Time: Dec 07 06:30:33 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U120618W.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 07 00:39:42 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.98	168	111128	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	197575	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	183211	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	89412	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.31	65	88679	52.29	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.58%	
35) Dibromofluoromethane	4.88	113	63906	51.40	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.80%	
50) Toluene-d8	7.57	98	257548	52.36	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.72%	
62) 4-Bromofluorobenzene	10.30	95	94362	51.33	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.66%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.21	85	29904	20.076	ug/l	98
3) Chloromethane	1.33	50	52566	19.196	ug/l	99
4) Vinyl Chloride	1.40	62	39299	19.886	ug/l	100
5) Bromomethane	1.63	94	14632	18.380	ug/l	99
6) Chloroethane	1.70	64	23381	20.898	ug/l	99
7) Trichlorofluoromethane	1.89	101	41024	19.731	ug/l	96
8) Diethyl Ether	2.10	74	18944	19.474	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	2.29	101	25610	20.595	ug/l	100
10) Methyl Iodide	2.41	142	20722	21.237	ug/l	100
11) Tert butyl alcohol	2.82	59	39462	104.442	ug/l	100
12) 1,1-Dichloroethene	2.29	96	24366	19.693	ug/l	96
13) Acrolein	2.20	56	29601	98.274	ug/l	98
14) Allyl chloride	2.59	41	54952	18.774	ug/l	100
15) Acrylonitrile	2.94	53	104631	99.744	ug/l	100
16) Acetone	2.32	43	104392	94.332	ug/l	98
17) Carbon Disulfide	2.48	76	85778	19.244	ug/l	99
18) Methyl Acetate	2.62	43	56912	19.839	ug/l	99
19) Methyl tert-butyl Ether	3.00	73	94570	20.162	ug/l	99
20) Methylene Chloride	2.70	84	30477	18.682	ug/l	98
21) trans-1,2-Dichloroethene	2.98	96	27491	19.734	ug/l	98
22) Diisopropyl ether	3.57	45	113756	19.985	ug/l	98
23) Vinyl Acetate	3.52	43	472385	100.614	ug/l	100
24) 1,1-Dichloroethane	3.45	63	57323	19.239	ug/l	100
25) 2-Butanone	4.26	43	150856	99.750	ug/l	100
26) 2,2-Dichloropropane	4.23	77	45579	19.306	ug/l	98
27) cis-1,2-Dichloroethene	4.23	96	31087	19.716	ug/l	99
28) Bromochloromethane	4.55	49	28841	21.293	ug/l	99
29) Tetrahydrofuran	4.64	42	98809	101.730	ug/l	99
30) Chloroform	4.67	83	52809	20.336	ug/l	95
31) Cyclohexane	5.00	56	59781	19.838	ug/l	97
32) 1,1,1-Trichloroethane	4.92	97	42724	19.809	ug/l	98
36) 1,1-Dichloropropene	5.14	75	41647	19.263	ug/l	99
37) Ethyl Acetate	4.38	43	56120	20.080	ug/l	98
38) Carbon Tetrachloride	5.13	117	33525	19.238	ug/l	99

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU120618\
 Data File : VU028501.D
 Acq On : 06 Dec 2018 15:26
 Operator : MD/SY
 Sample : VU1206WBS01
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleID :
 VU1206WBS01

Manual Integrations
 APPROVED

MMDadoda
 12/7/2018 10:35:15 AM

Quant Time: Dec 07 06:30:33 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U120618W.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 07 00:39:42 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	6.41	83	50284	19.064	ug/l	97
40) Benzene	5.39	78	123475	19.391	ug/l	96
41) Methacrylonitrile	4.54	41	30594	19.988	ug/l	99
42) 1,2-Dichloroethane	5.40	62	42862	19.230	ug/l	100
43) Isopropyl Acetate	5.55	43	87234	19.733	ug/l	99
44) Trichloroethene	6.19	130	27730	19.586	ug/l	99
45) 1,2-Dichloropropane	6.43	63	35253	19.687	ug/l	99
46) Dibromomethane	6.56	93	20830	19.606	ug/l	100
47) Bromodichloromethane	6.76	83	41064	19.862	ug/l	96
48) Methyl methacrylate	6.62	41	43998	20.014	ug/l	99
49) 1,4-Dioxane	6.61	88	14165	408.072	ug/l	98
51) 4-Methyl-2-Pentanone	7.46	43	272451	97.717	ug/l	99
52) Toluene	7.64	92	73231	19.541	ug/l	98
53) t-1,3-Dichloropropene	7.88	75	47009	19.092	ug/l	99
54) cis-1,3-Dichloropropene	7.27	75	51787	19.386	ug/l	99
55) 1,1,2-Trichloroethane	8.06	97	28739	19.400	ug/l	93
56) Ethyl methacrylate	8.02	69	49675	19.582	ug/l	99
57) 1,3-Dichloropropane	8.24	76	52839	19.215	ug/l	100
58) 2-Chloroethyl Vinyl ether	7.12	63	124167	95.562	ug/l	100
59) 2-Hexanone	8.36	43	210721	95.353	ug/l	99
60) Dibromochloromethane	8.48	129	27945	19.268	ug/l	97
61) 1,2-Dibromoethane	8.58	107	30448	19.600	ug/l	97
64) Tetrachloroethene	8.23	164	23440	19.181	ug/l	97
65) Chlorobenzene	9.12	112	75262	19.278	ug/l	97
66) 1,1,1,2-Tetrachloroethane	9.21	131	24789	19.884	ug/l	99
67) Ethyl Benzene	9.25	91	138214	19.258	ug/l	98
68) m/p-Xylenes	9.37	106	100092	38.328	ug/l	97
69) o-Xylene	9.78	106	49222	19.395	ug/l	99
70) Styrene	9.79	104	79863	19.015	ug/l	99
71) Bromoform	9.96	173	20371	19.208	ug/l #	98
73) Isopropylbenzene	10.16	105	130431	19.011	ug/l	100
74) N-amyl acetate	10.01	43	73532	18.580	ug/l	99
75) 1,1,2,2-Tetrachloroethane	10.46	83	51434	19.515	ug/l	100
76) 1,2,3-Trichloropropane	10.49	75	41305m	18.091	ug/l	
77) Bromobenzene	10.45	156	30744	19.160	ug/l	100
78) n-propylbenzene	10.58	91	159796	18.744	ug/l	100
79) 2-Chlorotoluene	10.66	91	93451	19.030	ug/l	100
80) 1,3,5-Trimethylbenzene	10.77	105	109030	19.198	ug/l	99
81) trans-1,4-Dichloro-2-buten	10.51	75	18950m	20.717	ug/l	
82) 4-Chlorotoluene	10.77	91	106781	18.349	ug/l	98
83) tert-Butylbenzene	11.10	119	103916	18.984	ug/l	100
84) 1,2,4-Trimethylbenzene	11.15	105	111462	19.044	ug/l	99
85) sec-Butylbenzene	11.32	105	133444	18.976	ug/l	100
86) p-Isopropyltoluene	11.48	119	110834	18.554	ug/l	99
87) 1,3-Dichlorobenzene	11.41	146	56411	18.618	ug/l	98
88) 1,4-Dichlorobenzene	11.50	146	55593	17.734	ug/l	98
89) n-Butylbenzene	11.89	91	108280	17.910	ug/l	100
90) Hexachloroethane	12.14	117	16337	18.094	ug/l	94
91) 1,2-Dichlorobenzene	11.88	146	53923	17.792	ug/l	97
92) 1,2-Dibromo-3-Chloropropan	12.66	75	10751	18.842	ug/l	97

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU120618\
Data File : VU028501.D
Acq On : 06 Dec 2018 15:26
Operator : MD/SY
Sample : VU1206WBS01
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VU1206WBS01

Manual Integrations
APPROVED

MMDadoda
12/7/2018 10:35:15 AM

Quant Time: Dec 07 06:30:33 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_U\METHOD\82U120618W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 07 00:39:42 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	13.50	180	36898	18.262	ug/l	99
94) Hexachlorobutadiene	13.69	225	17585	17.713	ug/l	98
95) Naphthalene	13.74	128	127604	17.546	ug/l	100
96) 1,2,3-Trichlorobenzene	13.99	180	37784	18.322	ug/l	98

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

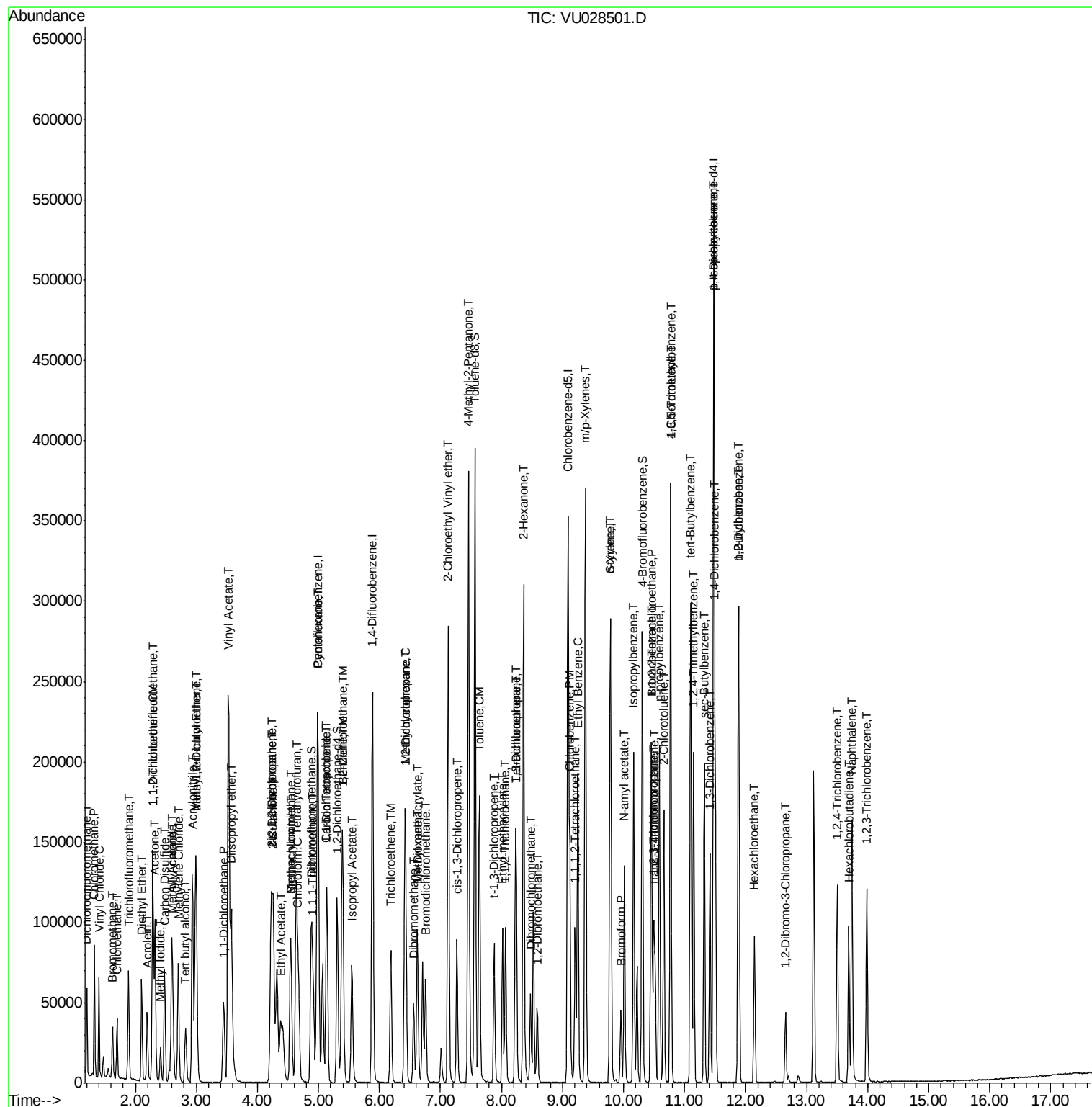
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU120618\
Data File : VU028501.D
Acq On : 06 Dec 2018 15:26
Operator : MD/SY
Sample : VU1206WBS01
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 11 Sample Multiplier: 1

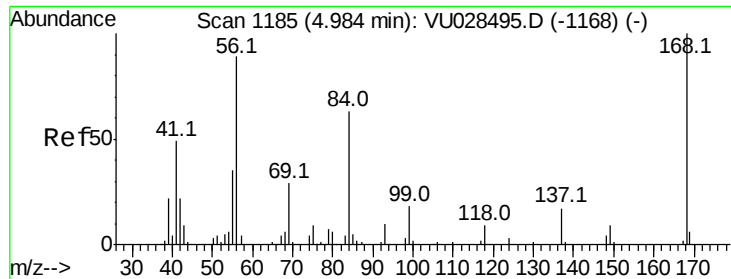
Instrument :
MSVOA_U
ClientSampleId :
VU1206WBS01

Manual Integrations
APPROVED

MMDadoda
12/7/2018 10:35:15 AM

Quant Time: Dec 07 06:30:33 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_U\METHOD\82U120618W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 07 00:39:42 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.98 min Scan# 1185

Delta R.T. -0.00 min

Lab File: VU028501.D

Acq: 06 Dec 2018 15:26

Instrument :

MSVOA_U

ClientSampleId :

VU1206WBS01

Tot Ion:168 Resp: 111128

Ion Ratio Lower Upper

168 100

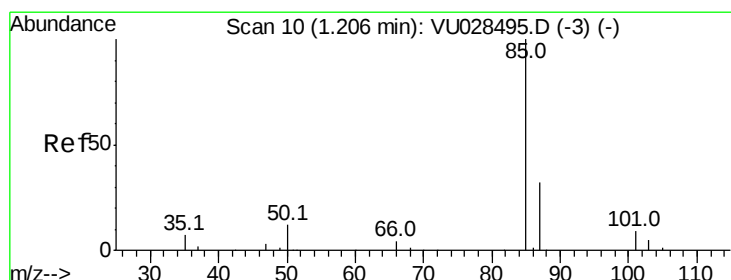
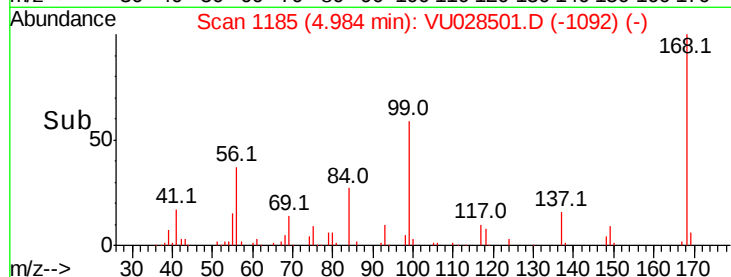
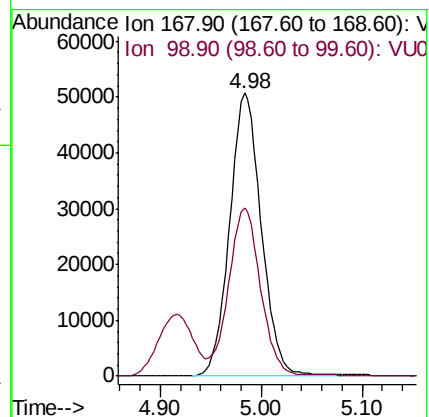
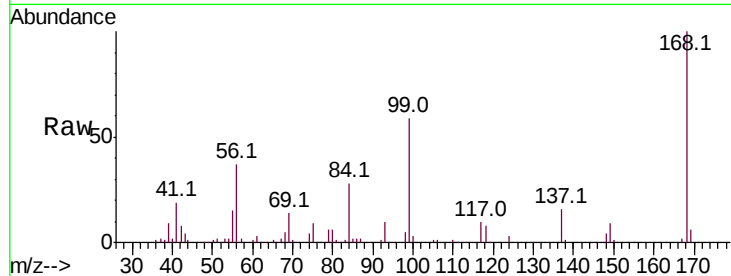
99 59.2 46.6 69.8

Manual Integrations

APPROVED

MMDadoda

12/7/2018 10:35:15 AM



#2

Dichlorodifluoromethane

Concen: 20.076 ug/l

RT: 1.21 min Scan# 10

Delta R.T. -0.00 min

Lab File: VU028501.D

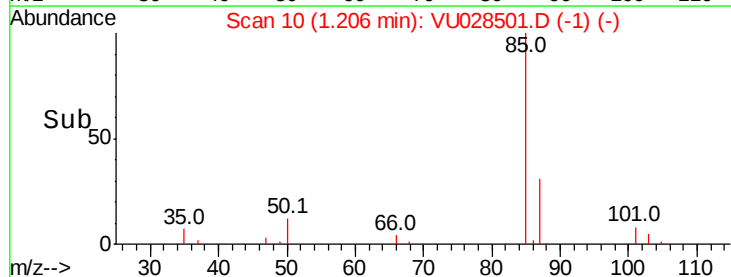
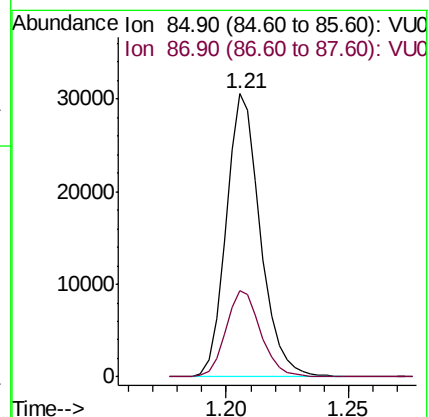
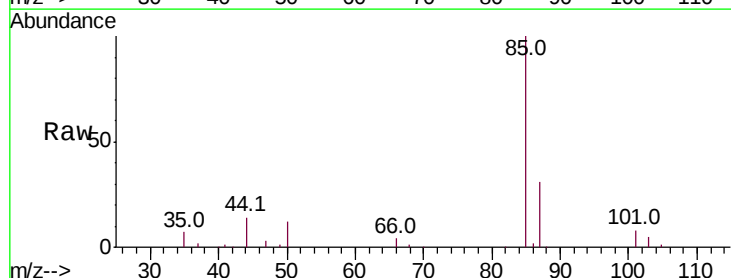
Acq: 06 Dec 2018 15:26

Tgt Ion: 85 Resp: 29904

Ion Ratio Lower Upper

85 100

87 30.5 15.9 47.6





#3

Chloromethane

Concen: 19.196 ug/l

RT: 1.33 min Scan# 48

Delta R.T. -0.00 min

Lab File: VU028501.D

Acq: 06 Dec 2018 15:26

Instrument :

MSVOA_U

ClientSampleId :

VU1206WBS01

Tot Ion: 50 Resp: 52566

Ion Ratio Lower Upper

50 100

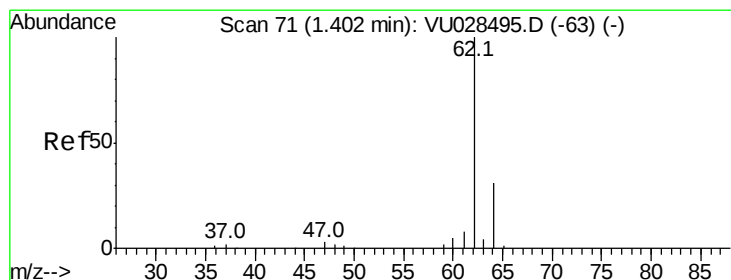
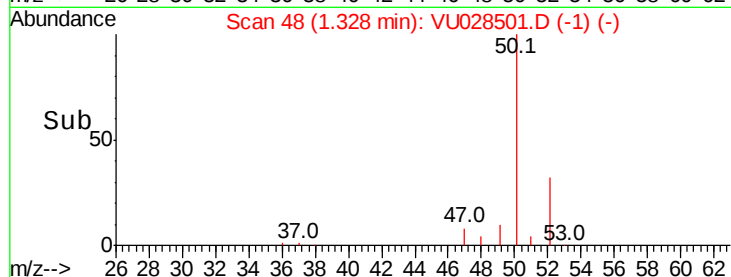
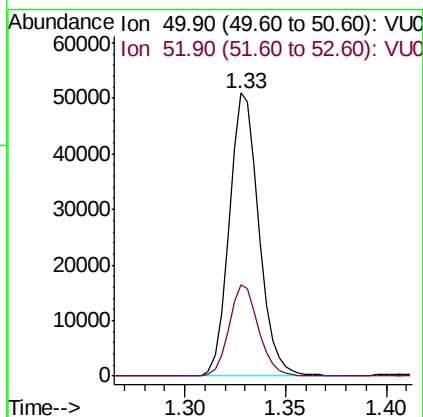
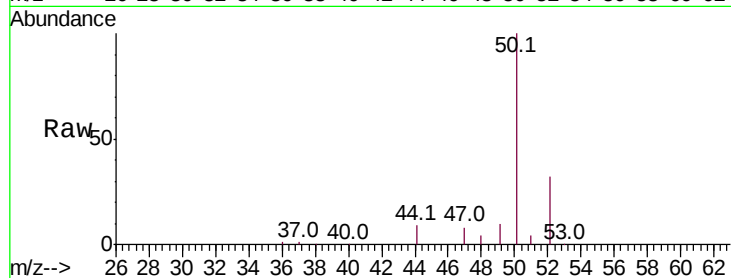
52 32.5 25.5 38.3

Manual Integrations

APPROVED

MMDadoda

12/7/2018 10:35:15 AM



#4

Vinyl Chloride

Concen: 19.886 ug/l

RT: 1.40 min Scan# 72

Delta R.T. 0.00 min

Lab File: VU028501.D

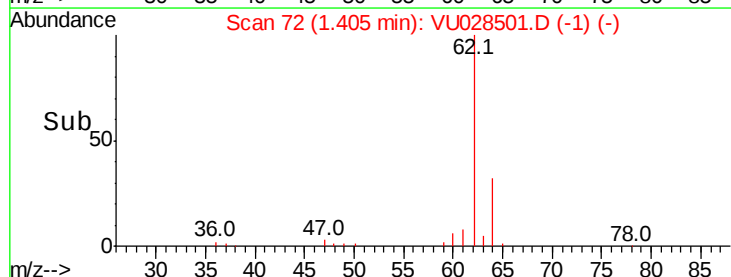
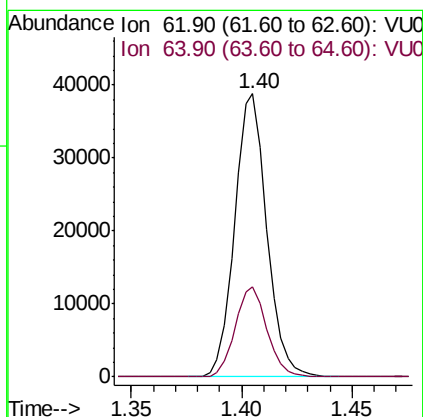
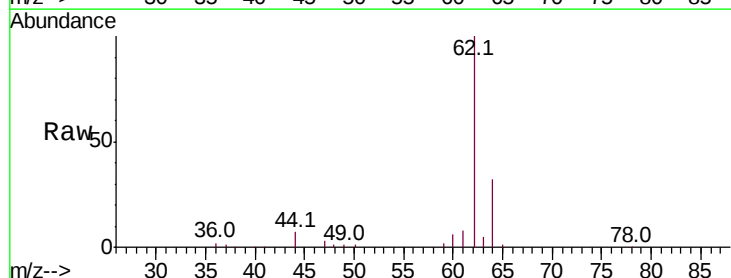
Acq: 06 Dec 2018 15:26

Tgt Ion: 62 Resp: 39299

Ion Ratio Lower Upper

62 100

64 31.7 25.1 37.7





#5

Bromomethane

Concen: 18.380 ug/l

RT: 1.63 min Scan# 141

Delta R.T. 0.01 min

Lab File: VU028501.D

Acq: 06 Dec 2018 15:26

Instrument :

MSVOA_U

ClientSampleId :

VU1206WBS01

Tot Ion: 94 Resp: 14632

Ion Ratio Lower Upper

94 100

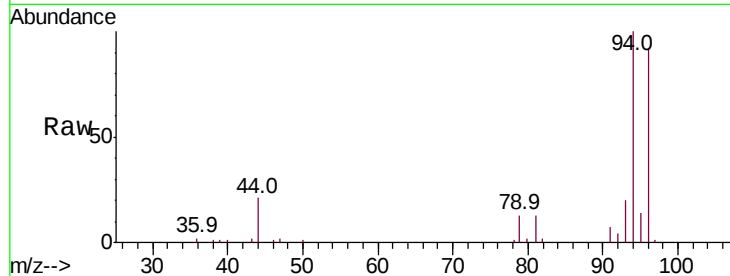
96 92.2 73.2 109.8

Manual Integrations

APPROVED

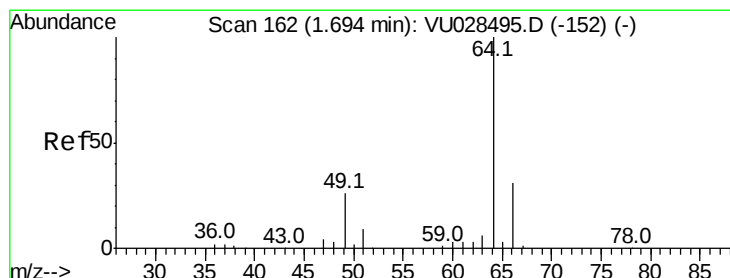
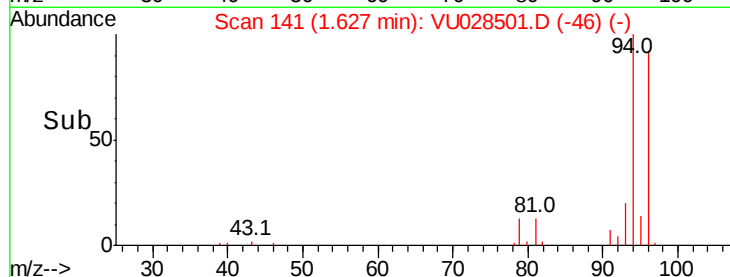
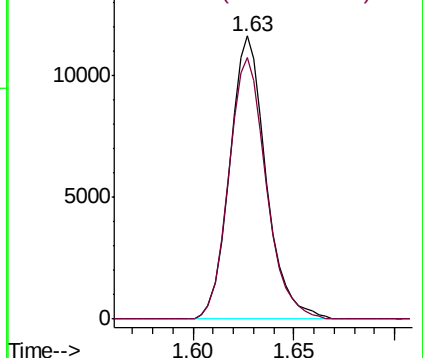
MMDadoda

12/7/2018 10:35:15 AM



Abundance Ion 93.90 (93.60 to 94.60): VU0

Ion 95.90 (95.60 to 96.60): VU0



#6

Chloroethane

Concen: 20.898 ug/l

RT: 1.70 min Scan# 164

Delta R.T. 0.01 min

Lab File: VU028501.D

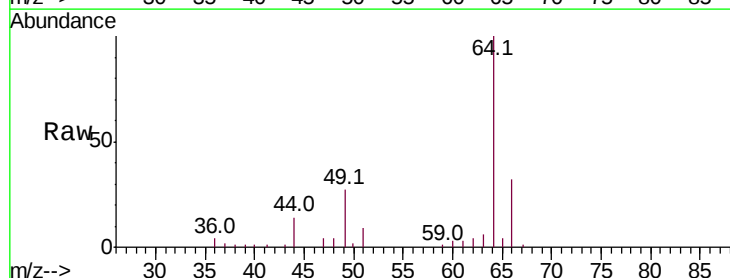
Acq: 06 Dec 2018 15:26

Tgt Ion: 64 Resp: 23381

Ion Ratio Lower Upper

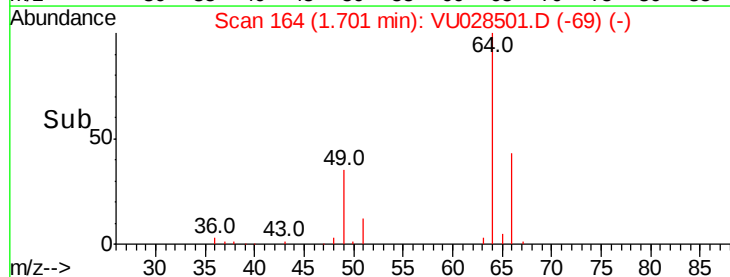
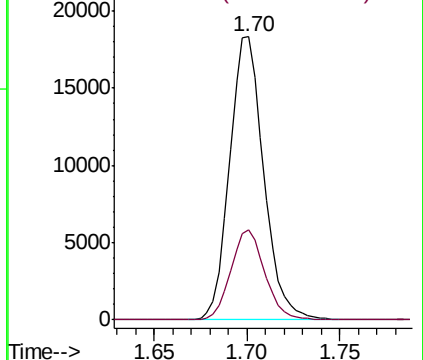
64 100

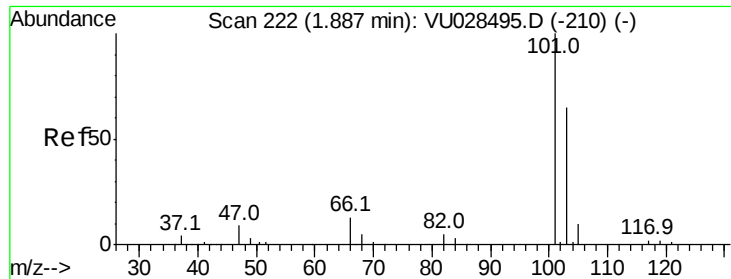
66 31.7 25.0 37.6



Abundance Ion 63.90 (63.60 to 64.60): VU0

Ion 65.90 (65.60 to 66.60): VU0





#7

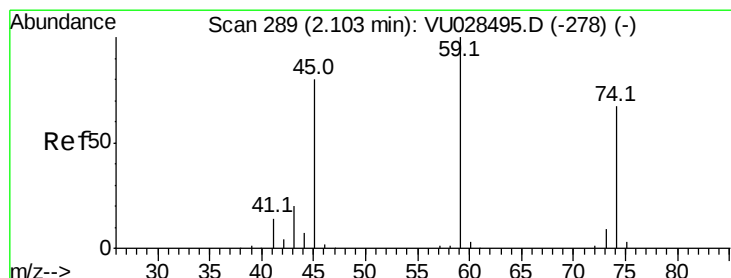
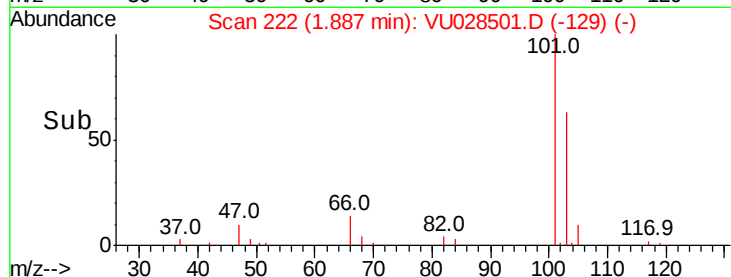
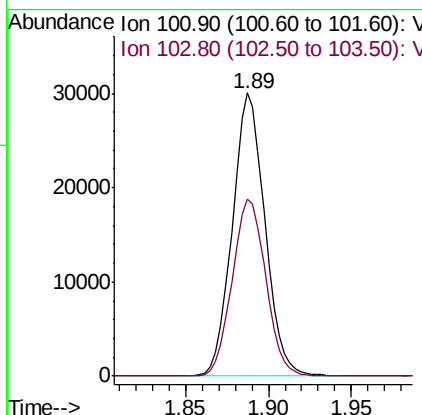
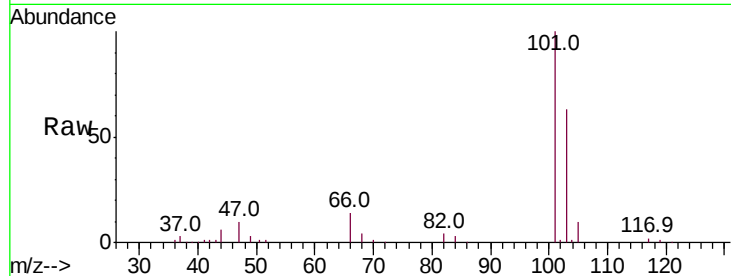
Trichlorofluoromethane
 Concen: 19.731 ug/l
 RT: 1.89 min Scan# 222
 Delta R.T. -0.00 min
 Lab File: VU028501.D
 Acq: 06 Dec 2018 15:26

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1206WBS01

Tot Ion:101 Resp: 41024
 Ion Ratio Lower Upper
 101 100
 103 62.6 52.3 78.5

Manual Integrations
 APPROVED

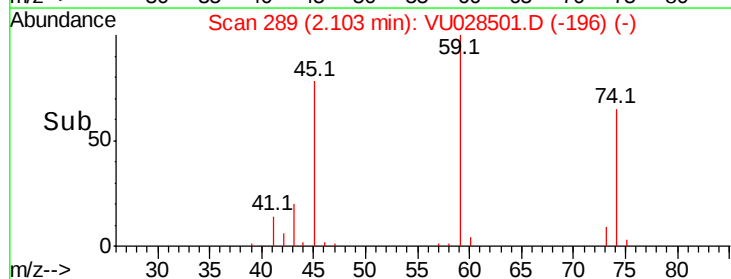
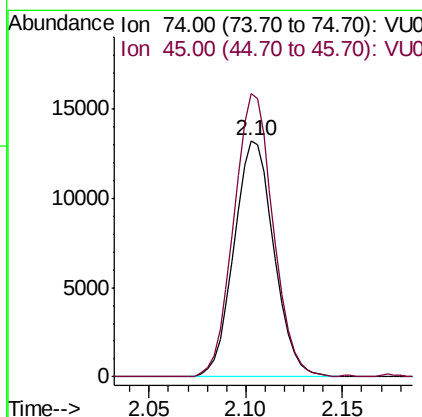
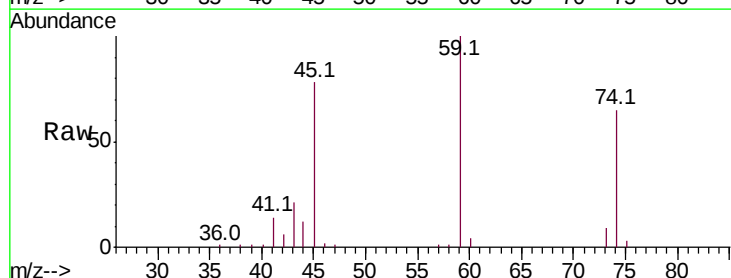
MMDadoda
 12/7/2018 10:35:15 AM



#8

Diethyl Ether
 Concen: 19.474 ug/l
 RT: 2.10 min Scan# 289
 Delta R.T. -0.00 min
 Lab File: VU028501.D
 Acq: 06 Dec 2018 15:26

Tgt Ion: 74 Resp: 18944
 Ion Ratio Lower Upper
 74 100
 45 118.0 59.7 179.0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 20.595 ug/l

RT: 2.29 min Scan# 346

Delta R.T. -0.00 min

Lab File: VU028501.D

Acq: 06 Dec 2018 15:26

Instrument :

MSVOA_U

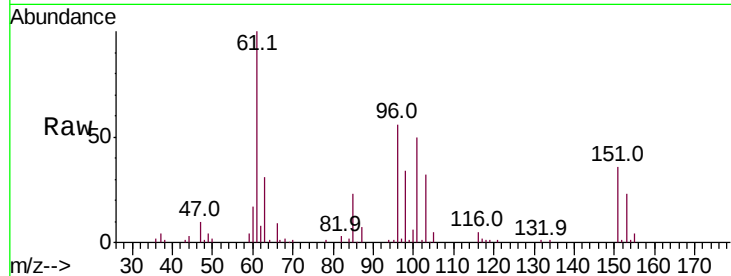
ClientSampleId :

VU1206WBS01

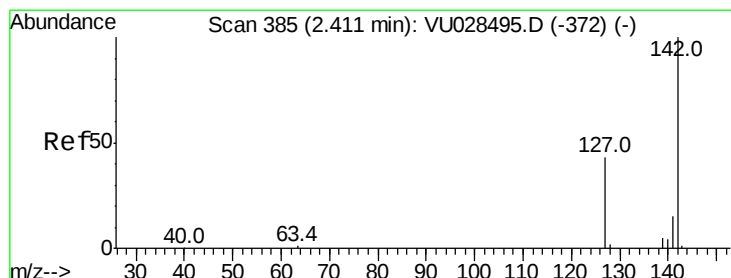
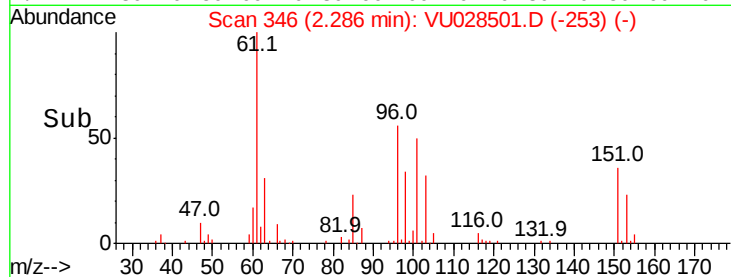
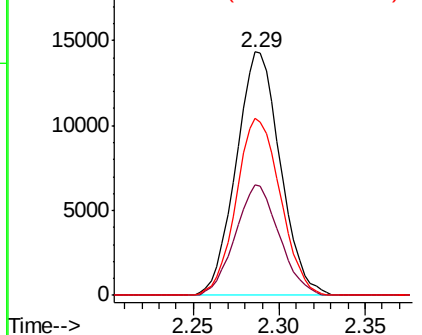
Tot Ion:	101	Resp:	25610
Ion Ratio	Lower	Upper	
101	100		
85	45.0	36.4	54.6
151	72.8	58.2	87.2

Manual Integrations
APPROVED

MMDadoda
12/7/2018 10:35:15 AM



Abundance Ion 100.90 (100.60 to 101.60): V
Ion 84.90 (84.60 to 85.60): VU
Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 21.237 ug/l

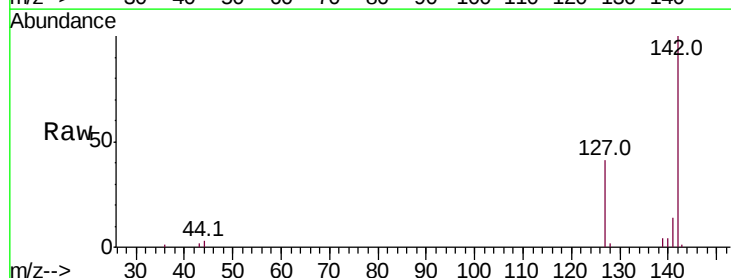
RT: 2.41 min Scan# 385

Delta R.T. -0.00 min

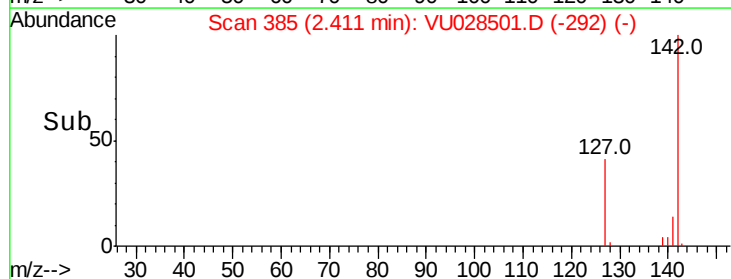
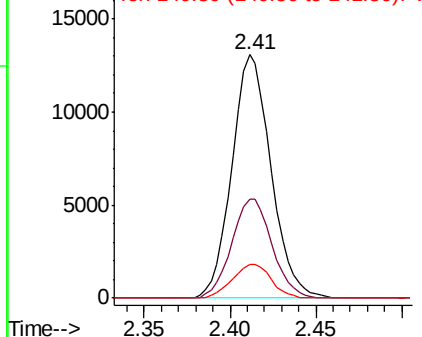
Lab File: VU028501.D

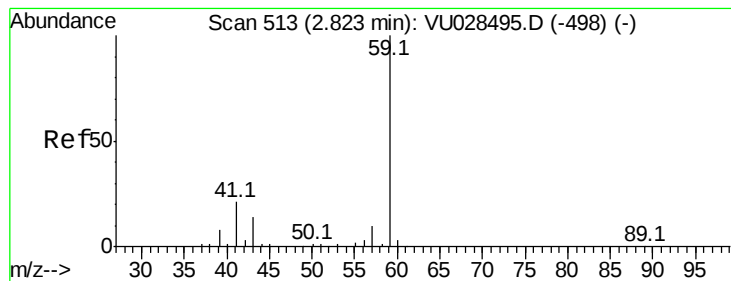
Acq: 06 Dec 2018 15:26

Tgt Ion:	142	Resp:	20722
Ion Ratio	Lower	Upper	
142	100		
127	42.0	33.5	50.3
141	13.7	11.2	16.8



Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V





#11

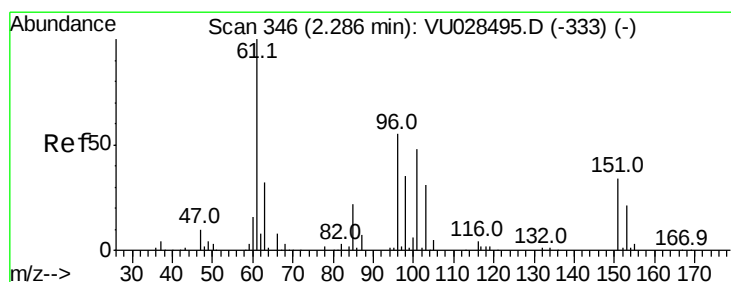
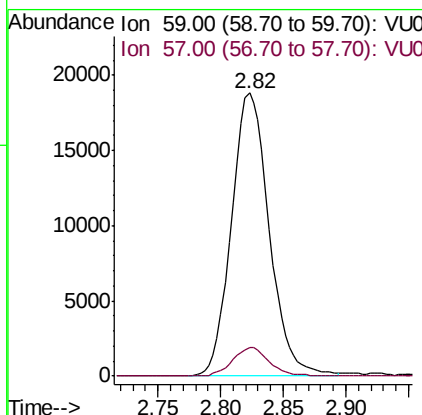
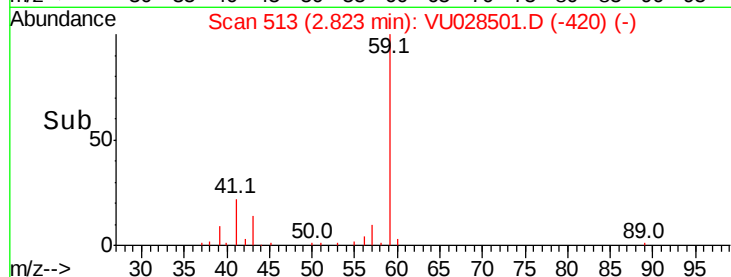
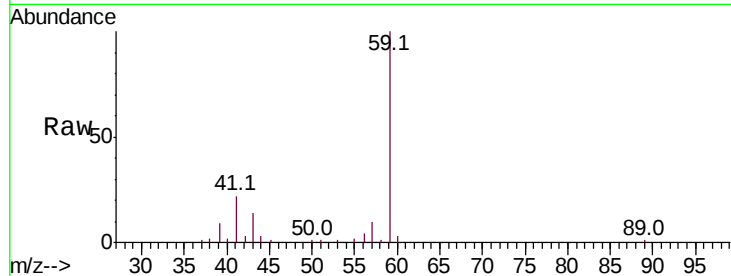
Tert butyl alcohol
 Concen: 104.442 ug/l
 RT: 2.82 min Scan# 513
 Delta R.T. -0.00 min
 Lab File: VU028501.D
 Acq: 06 Dec 2018 15:26

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1206WBS01

Tot Ion	Ratio	Lower	Upper
59	100		
57	9.8	8.0	12.0

Manual Integrations
 APPROVED

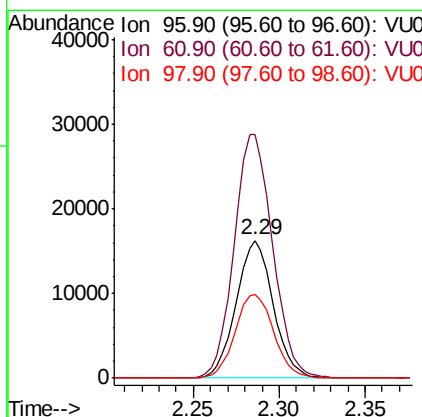
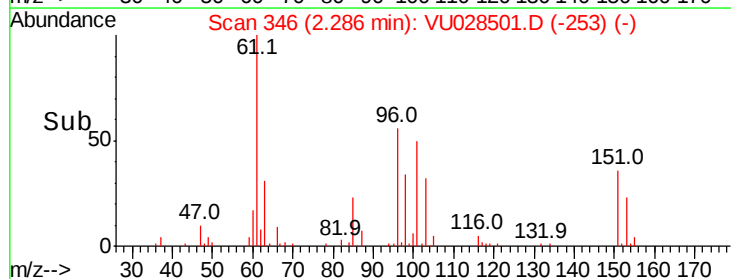
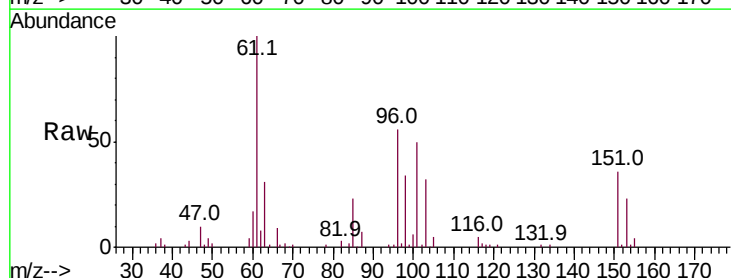
MMDadoda
 12/7/2018 10:35:15 AM

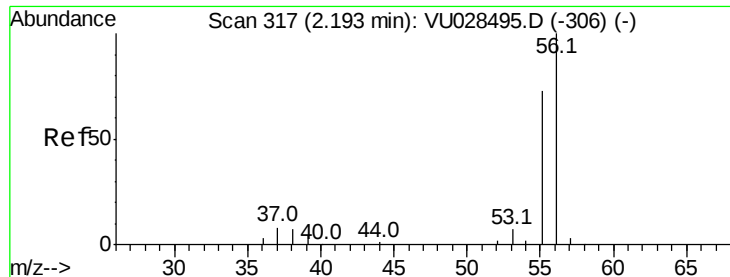


#12

1,1-Dichloroethene
 Concen: 19.693 ug/l
 RT: 2.29 min Scan# 346
 Delta R.T. -0.00 min
 Lab File: VU028501.D
 Acq: 06 Dec 2018 15:26

Tgt Ion	Ratio	Lower	Upper
96	100		
61	177.0	146.4	219.6
98	60.9	51.8	77.8





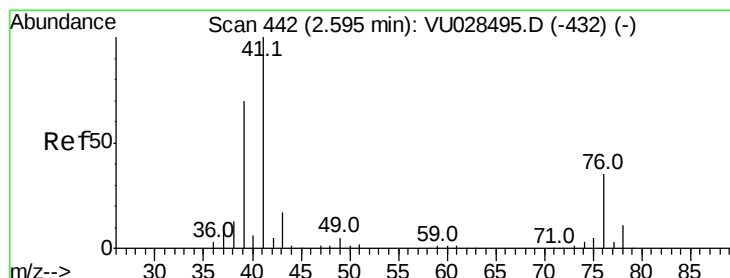
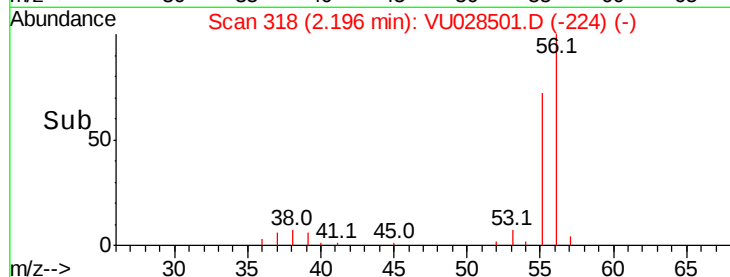
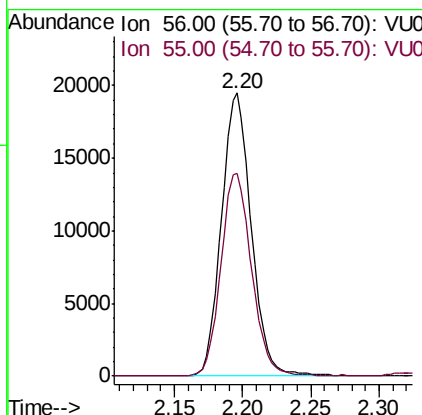
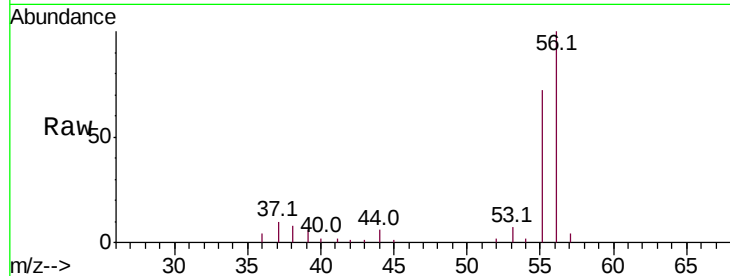
#13
Acrolein
Concen: 98.274 ug/l
RT: 2.20 min Scan# 318
Delta R.T. 0.00 min
Lab File: VU028501.D
Acq: 06 Dec 2018 15:26

Instrument :
MSVOA_U
ClientSampleId :
VU1206WBS01

Tot Ion	56	Resp	29601
Ion Ratio	100	Lower	Upper
55	73.7	57.5	86.3

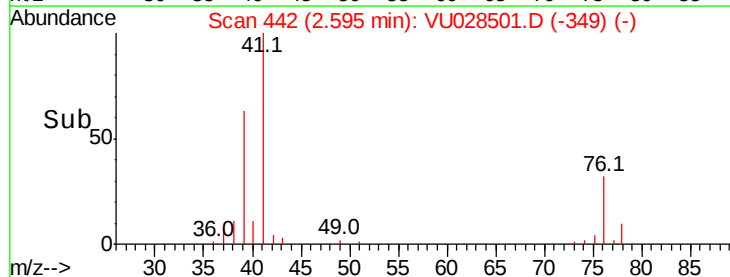
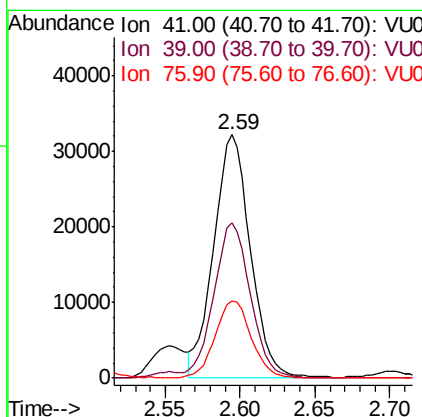
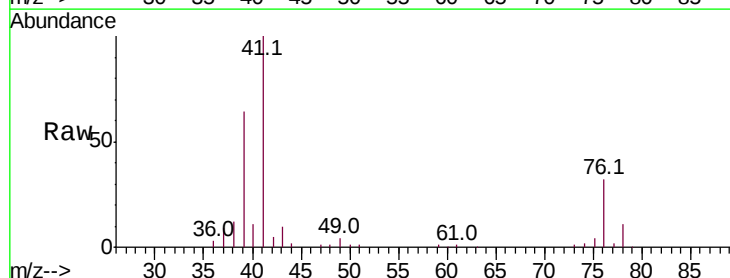
Manual Integrations
APPROVED

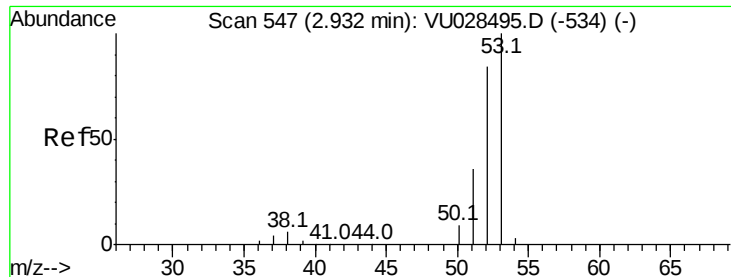
MMDadoda
12/7/2018 10:35:15 AM



#14
Allyl chloride
Concen: 18.774 ug/l
RT: 2.59 min Scan# 442
Delta R.T. -0.00 min
Lab File: VU028501.D
Acq: 06 Dec 2018 15:26

Tgt Ion	41	Resp	54952
Ion Ratio	100	Lower	Upper
39	63.3	50.8	76.2
76	31.4	24.8	37.2





#15

Acrylonitrile

Concen: 99.744 ug/l

RT: 2.94 min Scan# 548

Delta R.T. 0.00 min

Lab File: VU028501.D

Acq: 06 Dec 2018 15:26

Instrument :

MSVOA_U

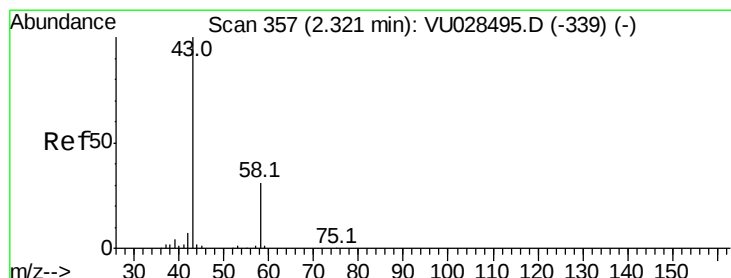
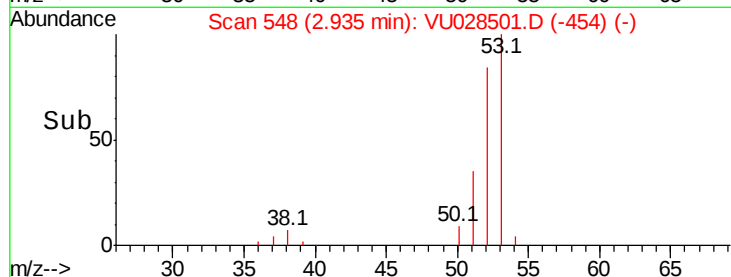
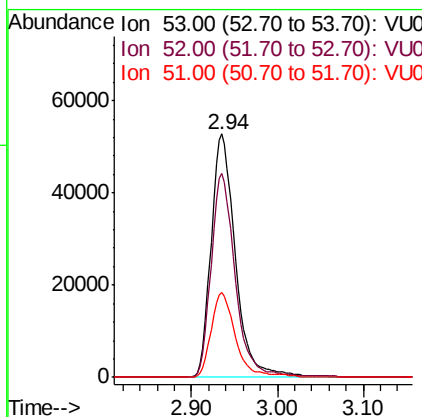
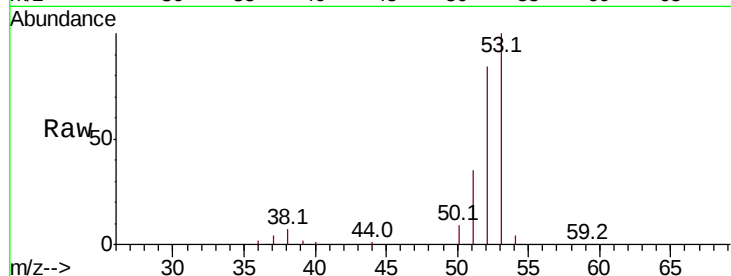
ClientSampleId :

VU1206WBS01

Tot Ion:	53	Resp:	104631
Ion Ratio	Lower	Upper	
53	100		
52	82.4	66.1	99.1
51	35.2	28.1	42.1

Manual Integrations
APPROVED

MMDadoda
12/7/2018 10:35:15 AM



#16

Acetone

Concen: 94.332 ug/l

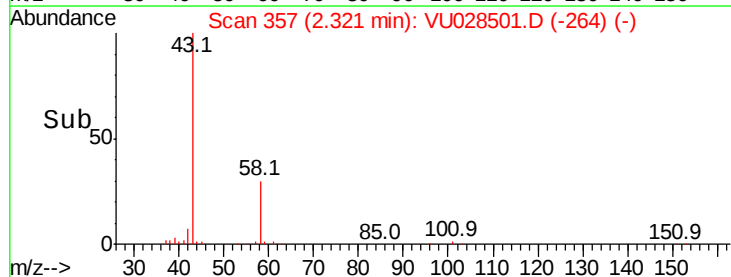
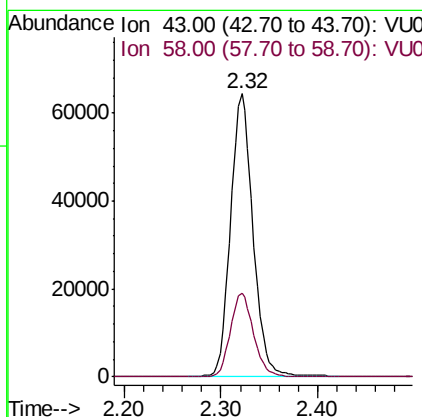
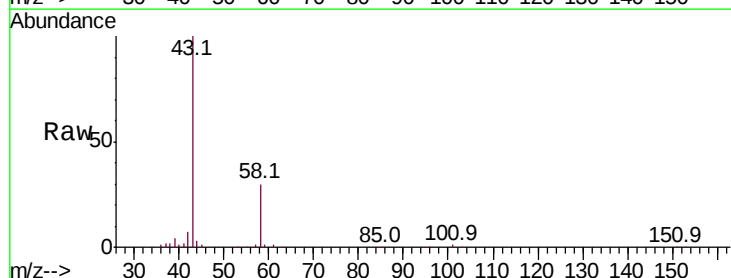
RT: 2.32 min Scan# 357

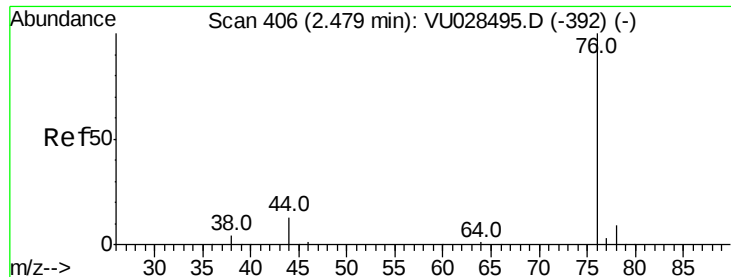
Delta R.T. -0.00 min

Lab File: VU028501.D

Acq: 06 Dec 2018 15:26

Tgt Ion:	43	Resp:	104392
Ion Ratio	Lower	Upper	
43	100		
58	29.8	24.6	37.0





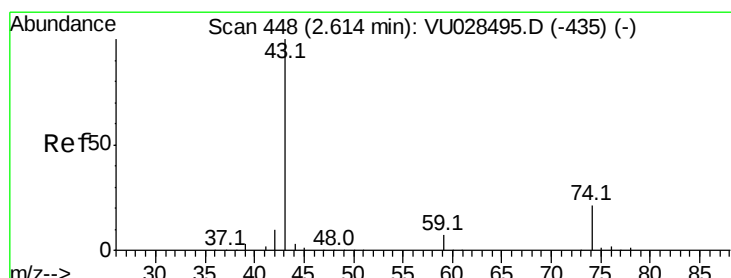
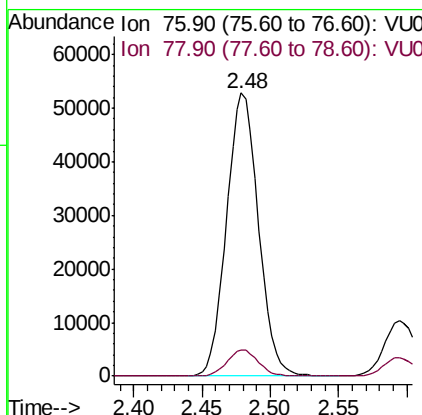
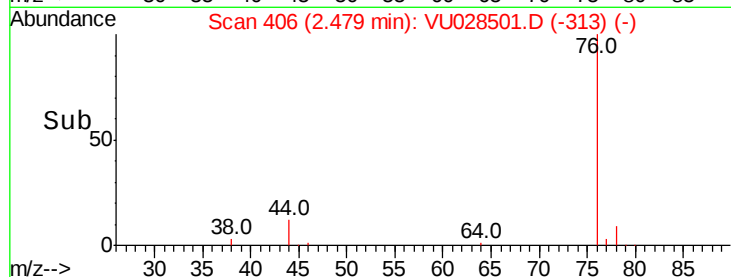
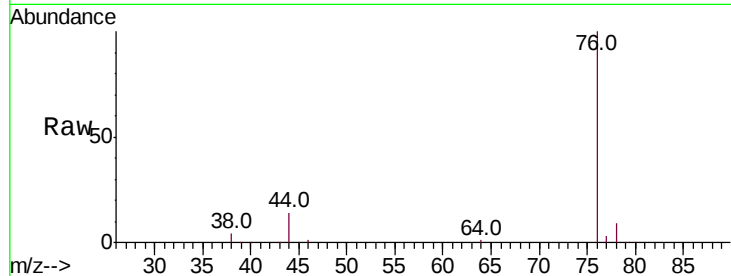
#17
Carbon Disulfide
Concen: 19.244 ug/l
RT: 2.48 min Scan# 406
Delta R.T. -0.00 min
Lab File: VU028501.D
Acq: 06 Dec 2018 15:26

Instrument :
MSVOA_U
ClientSampleId :
VU1206WBS01

Tot Ion: 76 Resp: 85778
Ion Ratio Lower Upper
76 100
78 9.4 7.2 10.8

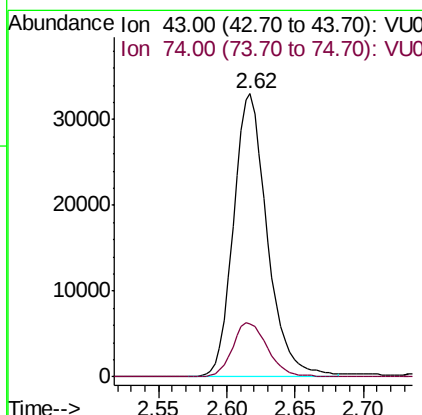
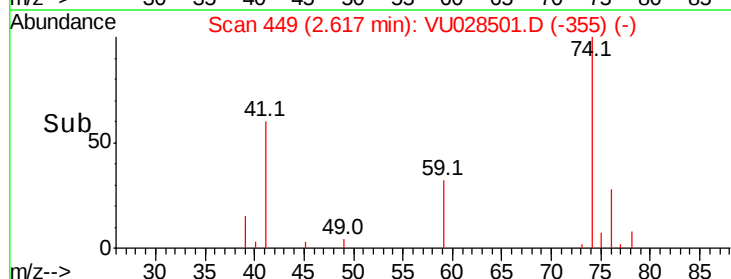
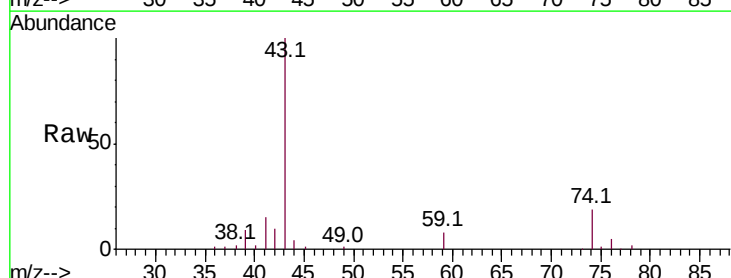
Manual Integrations
APPROVED

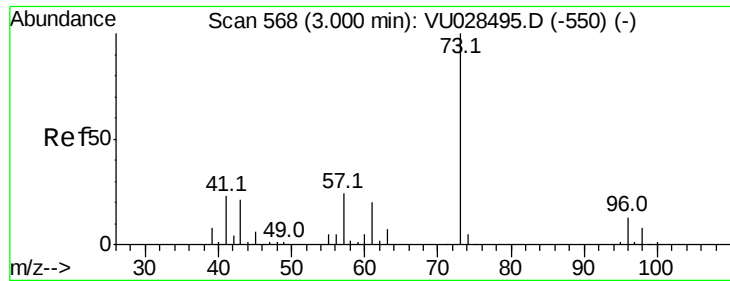
MMDadoda
12/7/2018 10:35:15 AM



#18
Methyl Acetate
Concen: 19.839 ug/l
RT: 2.62 min Scan# 448
Delta R.T. 0.00 min
Lab File: VU028501.D
Acq: 06 Dec 2018 15:26

Tgt Ion: 43 Resp: 56912
Ion Ratio Lower Upper
43 100
74 19.9 16.4 24.6





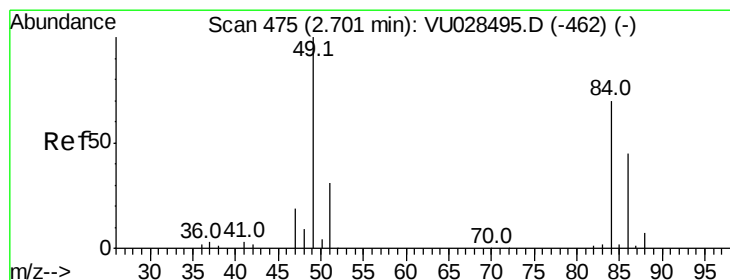
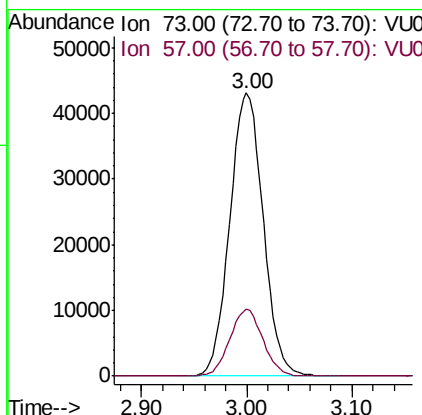
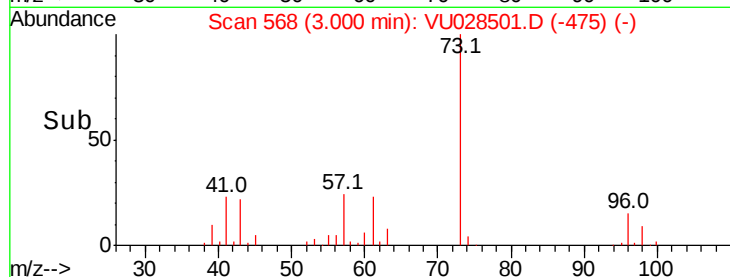
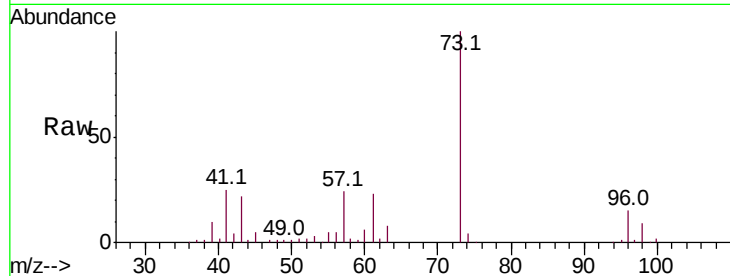
#19
Methyl tert-butyl Ether
Concen: 20.162 ug/l
RT: 3.00 min Scan# 568
Delta R.T. -0.00 min
Lab File: VU028501.D
Acq: 06 Dec 2018 15:26

Instrument :
MSVOA_U
ClientSampleId :
VU1206WBS01

Tot Ion: 73 Resp: 94570
Ion Ratio Lower Upper
73 100
57 23.7 19.4 29.2

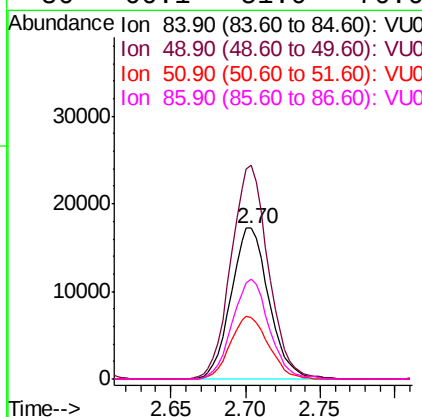
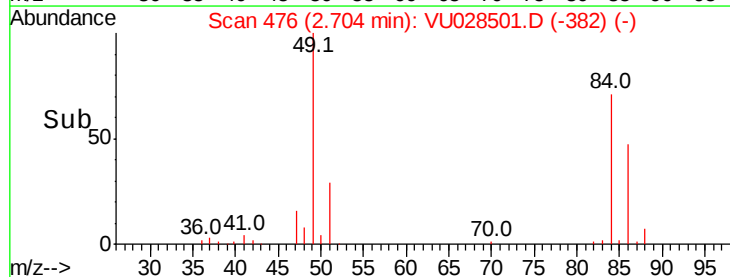
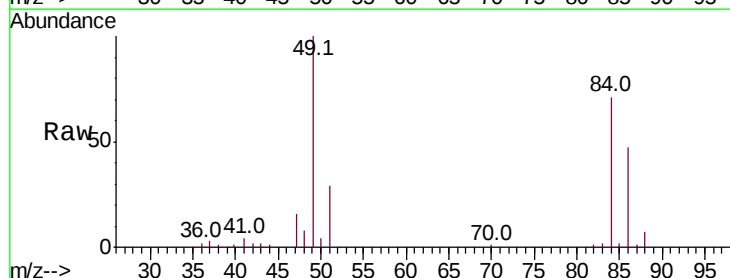
Manual Integrations
APPROVED

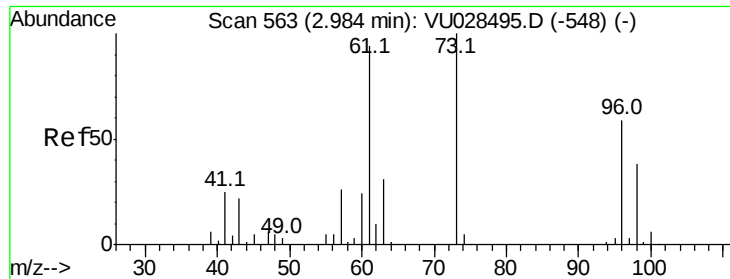
MMDadoda
12/7/2018 10:35:15 AM



#20
Methylene Chloride
Concen: 18.682 ug/l
RT: 2.70 min Scan# 476
Delta R.T. 0.00 min
Lab File: VU028501.D
Acq: 06 Dec 2018 15:26

Tgt Ion: 84 Resp: 30477
Ion Ratio Lower Upper
84 100
49 141.6 114.0 171.0
51 41.1 35.1 52.7
86 66.1 51.0 76.6





#21

trans-1,2-Dichloroethene

Concen: 19.734 ug/l

RT: 2.98 min Scan# 563

Delta R.T. -0.00 min

Lab File: VU028501.D

Acq: 06 Dec 2018 15:26

Instrument :

MSVOA_U

ClientSampleId :

VU1206WBS01

Tot Ion: 96 Resp: 27491

Ion Ratio Lower Upper

96 100

61 160.0 127.0 190.4

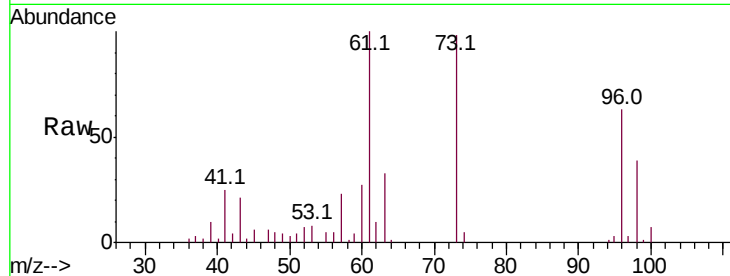
98 61.7 51.9 77.9

Manual Integrations

APPROVED

MMDadoda

12/7/2018 10:35:15 AM



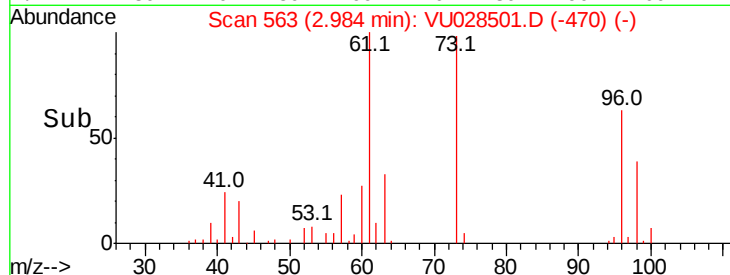
Abundance Ion 95.90 (95.60 to 96.60): VU028495.D (-548) (-)

Ion 60.90 (60.60 to 61.60): VU028495.D (-548) (-)

Ion 97.90 (97.60 to 98.60): VU028495.D (-548) (-)

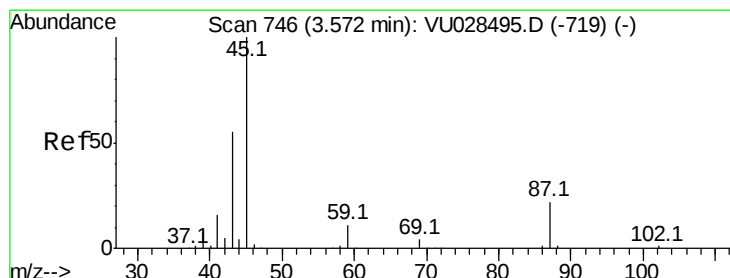
2.98

Time-->



2.98

Time-->



#22

Diisopropyl ether

Concen: 19.985 ug/l

RT: 3.57 min Scan# 746

Delta R.T. -0.00 min

Lab File: VU028501.D

Acq: 06 Dec 2018 15:26

Tgt Ion: 45 Resp: 113756

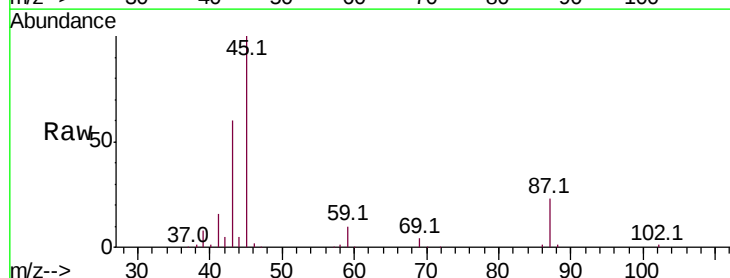
Ion Ratio Lower Upper

45 100

43 58.1 45.3 67.9

87 22.5 17.6 26.4

59 10.4 8.8 13.2



Abundance Ion 45.00 (44.70 to 45.70): VU028495.D (-719) (-)

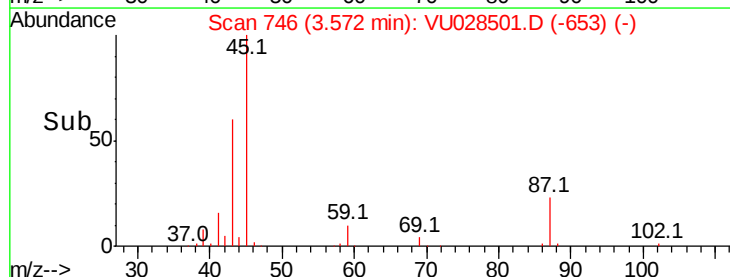
Ion 43.00 (42.70 to 43.70): VU028495.D (-719) (-)

Ion 87.00 (86.70 to 87.70): VU028495.D (-719) (-)

Ion 59.00 (58.70 to 59.70): VU028495.D (-719) (-)

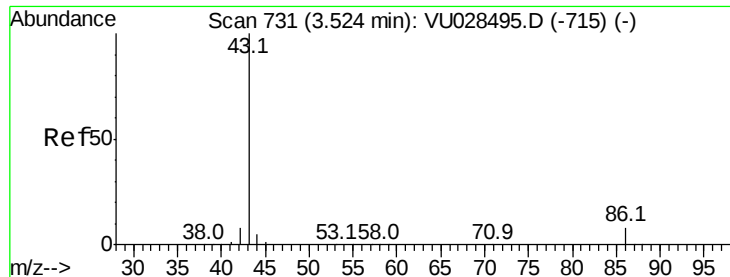
3.57

Time-->



3.57

Time-->



#23

Vinyl Acetate

Concen: 100.614 ug/l

RT: 3.52 min Scan# 731

Delta R.T. -0.00 min

Lab File: VU028501.D

Acq: 06 Dec 2018 15:26

Tot Ion: 43 Resp: 472385

Ion Ratio Lower Upper

43 100

86 8.4 6.8 10.2

Instrument :

MSVOA_U

ClientSampleId :

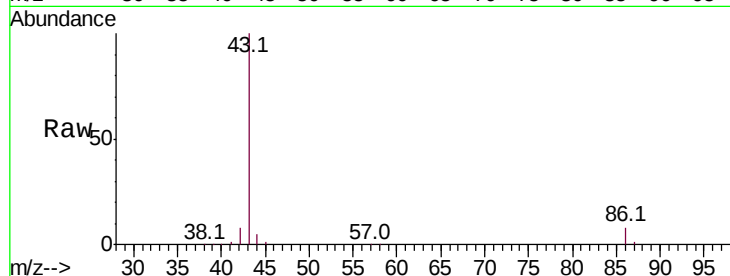
VU1206WBS01

Manual Integrations

APPROVED

MMDadoda

12/7/2018 10:35:15 AM



Abundance Ion 43.00 (42.70 to 43.70): VU028501.D (-638) (-)

Ion 86.00 (85.70 to 86.70): VU028501.D (-638) (-)

3.52

200000

150000

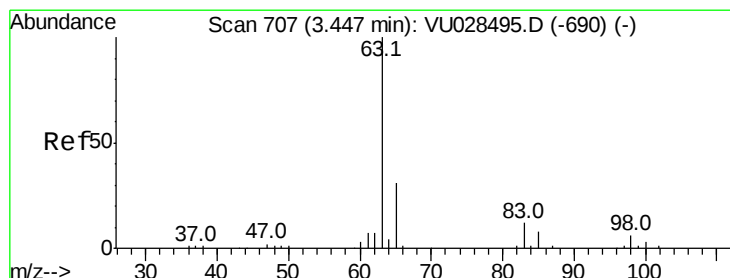
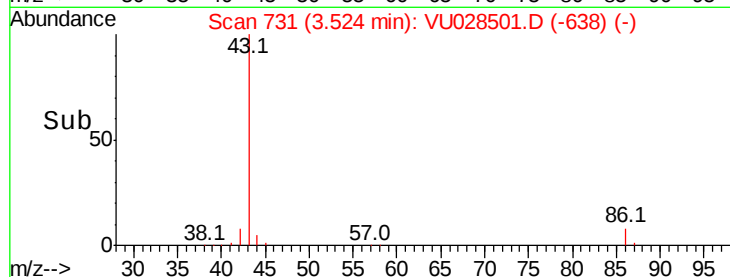
100000

50000

0

3.40 3.50 3.60 3.70

Time-->



#24

1,1-Dichloroethane

Concen: 19.239 ug/l

RT: 3.45 min Scan# 707

Delta R.T. -0.00 min

Lab File: VU028501.D

Acq: 06 Dec 2018 15:26

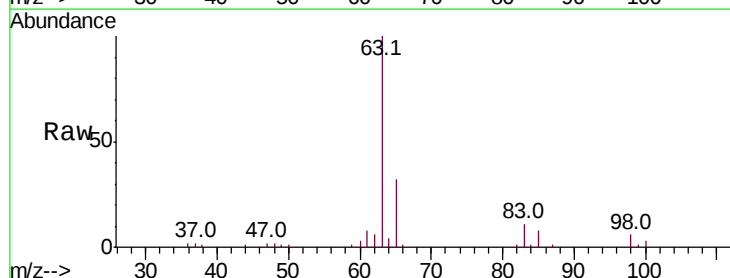
Tgt Ion: 63 Resp: 57323

Ion Ratio Lower Upper

63 100

98 5.9 3.0 9.2

100 3.4 1.7 5.1



Abundance Ion 62.90 (62.60 to 63.60): VU028501.D (-614) (-)

Ion 97.90 (97.60 to 98.60): VU028501.D (-614) (-)

Ion 99.90 (99.60 to 100.60): VU028501.D (-614) (-)

3.45

30000

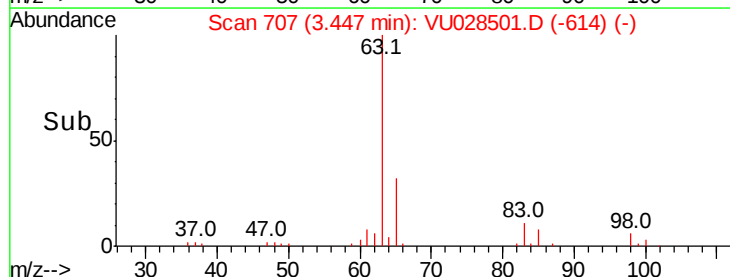
20000

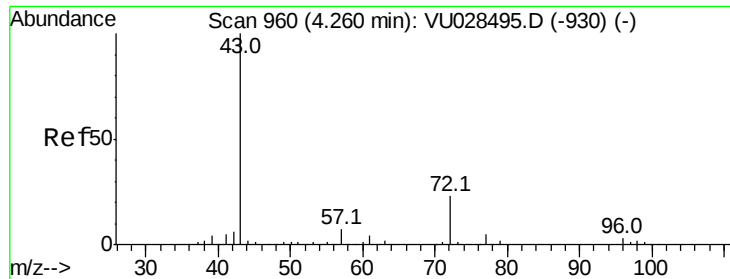
10000

0

3.35 3.40 3.45 3.50 3.55

Time-->





#25

2-Butanone

Concen: 99.750 ug/l

RT: 4.26 min Scan# 960

Delta R.T. -0.00 min

Lab File: VU028501.D

Acq: 06 Dec 2018 15:26

Instrument :

MSVOA_U

ClientSampleId :

VU1206WBS01

Tot Ion: 43 Resp: 150856

Ion Ratio Lower Upper

43 100

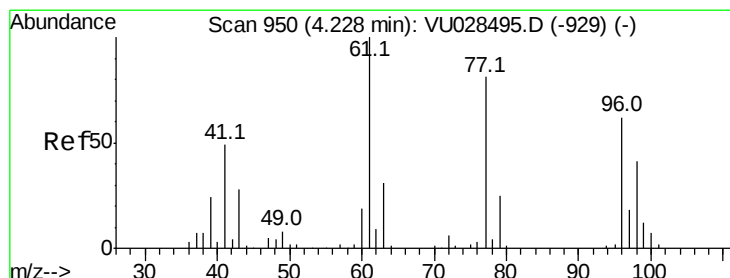
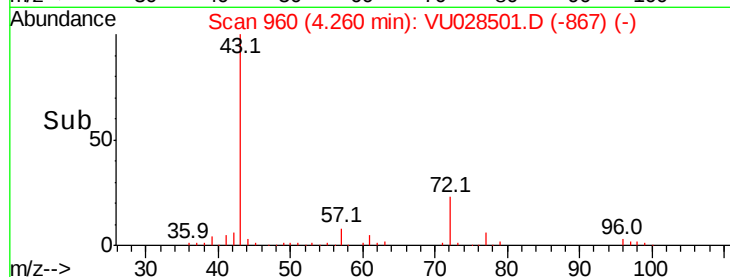
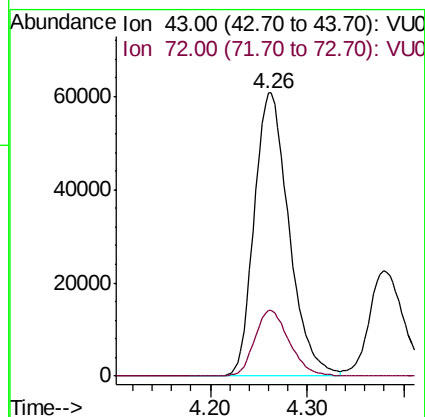
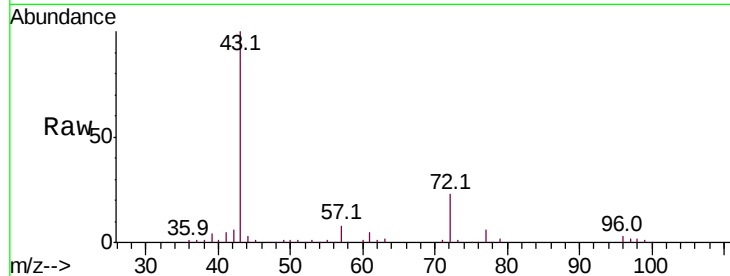
72 23.4 18.6 28.0

Manual Integrations

APPROVED

MMDadoda

12/7/2018 10:35:15 AM



#26

2,2-Dichloropropane

Concen: 19.306 ug/l

RT: 4.23 min Scan# 950

Delta R.T. -0.00 min

Lab File: VU028501.D

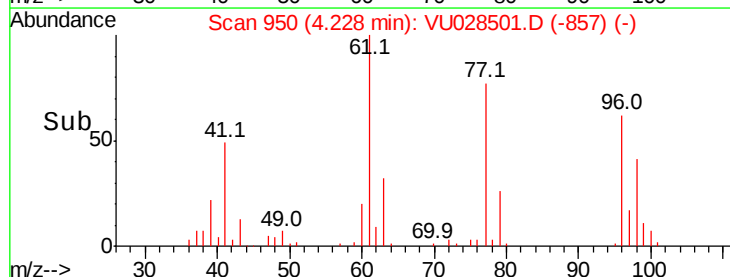
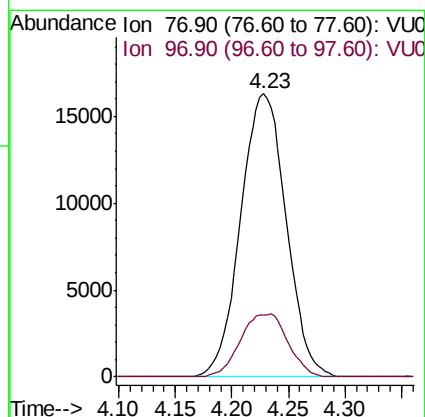
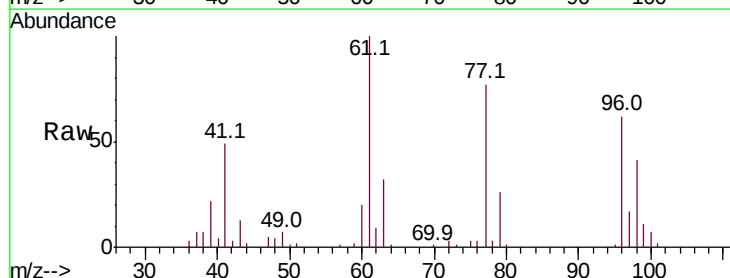
Acq: 06 Dec 2018 15:26

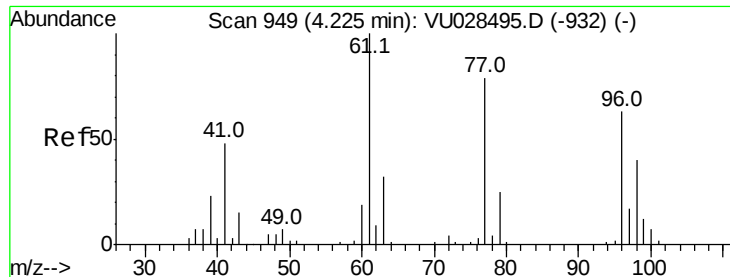
Tgt Ion: 77 Resp: 45579

Ion Ratio Lower Upper

77 100

97 23.1 11.0 33.0





#27

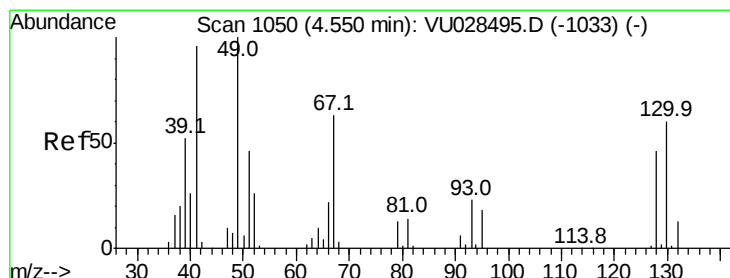
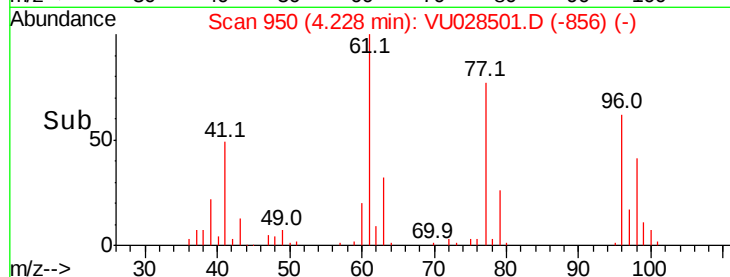
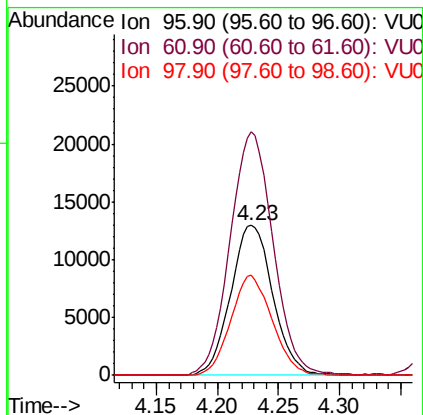
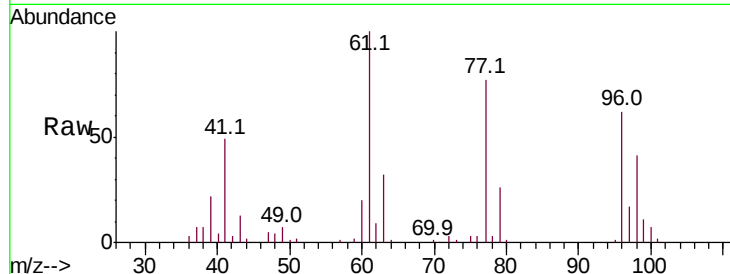
cis-1,2-Dichloroethene
 Concen: 19.716 ug/l
 RT: 4.23 min Scan# 950
 Delta R.T. 0.00 min
 Lab File: VU028501.D
 Acq: 06 Dec 2018 15:26

Instrument :
 MSVOA_U
 ClientSampled :
 VU1206WBS01

Tot Ion	Ratio	Lower	Upper
96	100		
61	165.6	0.0	332.4
98	65.6	0.0	129.0

Manual Integrations
 APPROVED

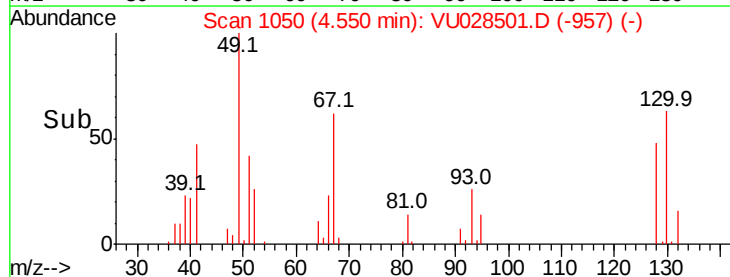
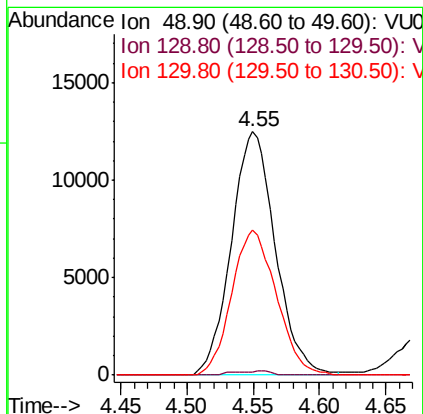
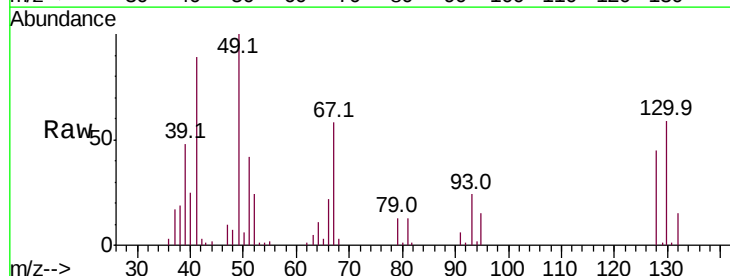
MMDadoda
 12/7/2018 10:35:15 AM

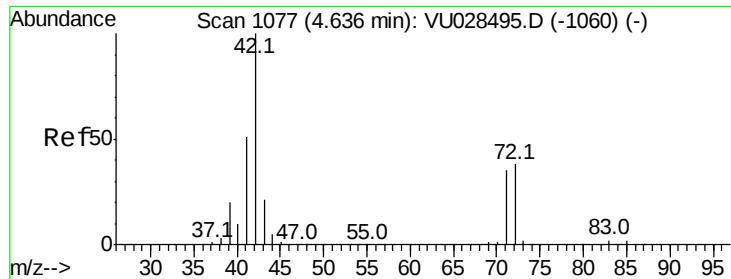


#28

Bromochloromethane
 Concen: 21.293 ug/l
 RT: 4.55 min Scan# 1050
 Delta R.T. -0.00 min
 Lab File: VU028501.D
 Acq: 06 Dec 2018 15:26

Tgt Ion	Ratio	Lower	Upper
49	100		
129	0.7	0.0	3.0
130	60.2	47.8	71.8





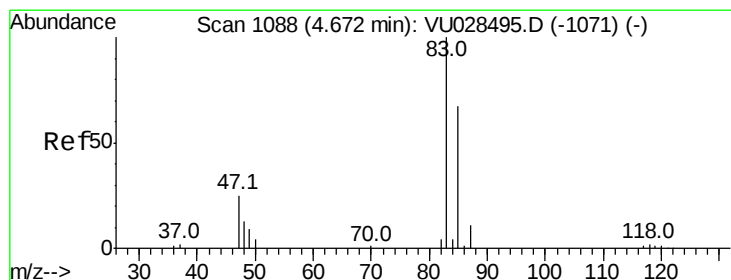
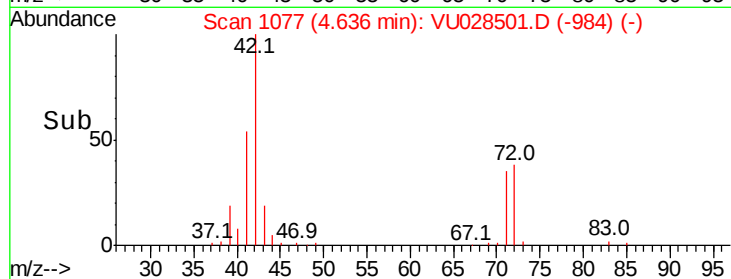
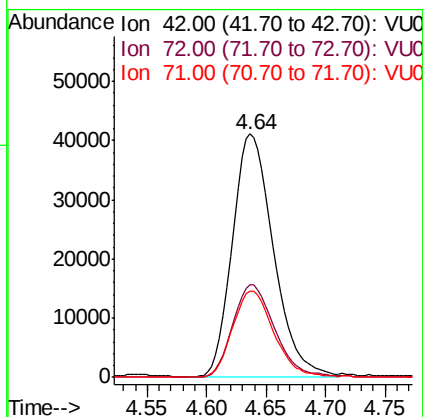
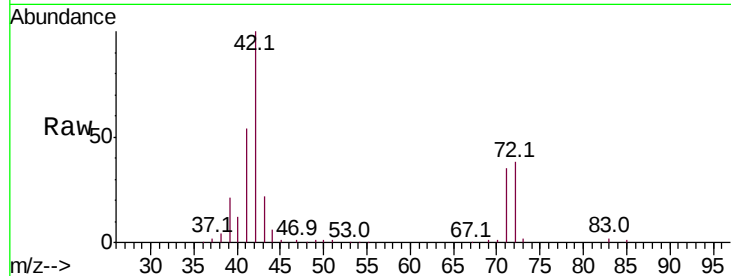
#29
Tetrahydrofuran
Concen: 101.730 ug/l
RT: 4.64 min Scan# 1077
Delta R.T. -0.00 min
Lab File: VU028501.D
Acq: 06 Dec 2018 15:26

Instrument :
MSVOA_U
ClientSampled :
VU1206WBS01

Tot Ion	Ratio	Lower	Upper
42	100		
72	38.6	31.4	47.0
71	35.5	28.6	43.0

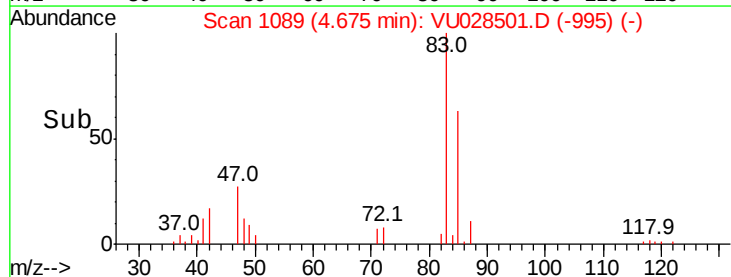
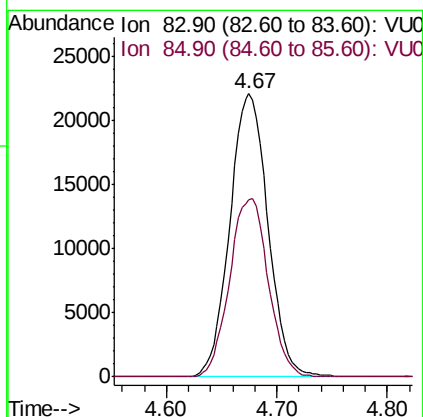
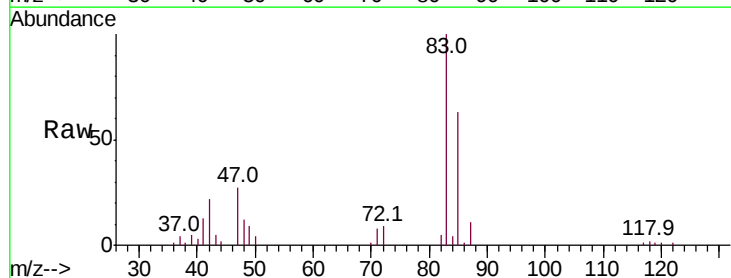
Manual Integrations
APPROVED

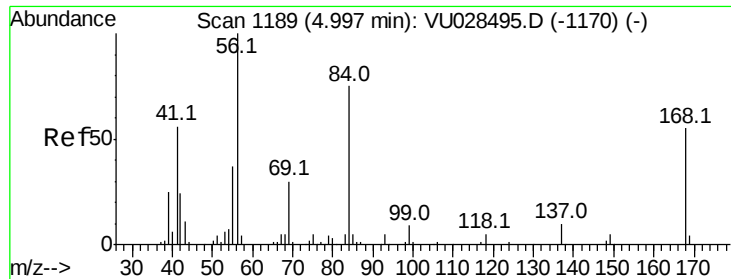
MMDadoda
12/7/2018 10:35:15 AM



#30
Chloroform
Concen: 20.336 ug/l
RT: 4.67 min Scan# 1089
Delta R.T. 0.00 min
Lab File: VU028501.D
Acq: 06 Dec 2018 15:26

Tgt Ion	Ratio	Lower	Upper
83	100		
85	62.7	53.6	80.4





#31

Cvclohexane

Concen: 19.838 ug/l

RT: 5.00 min Scan# 1189

Delta R.T. 0.00 min

Lab File: VU028501.D

Acq: 06 Dec 2018 15:26

Instrument :

MSVOA_U

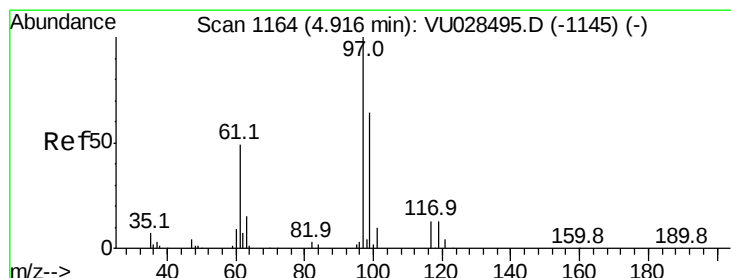
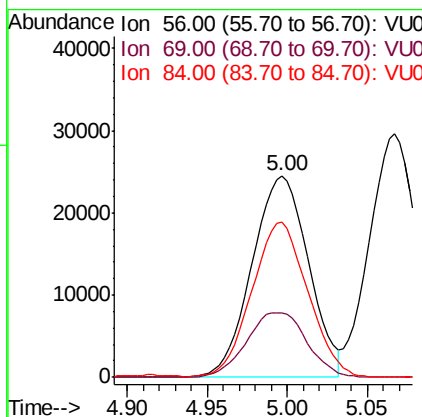
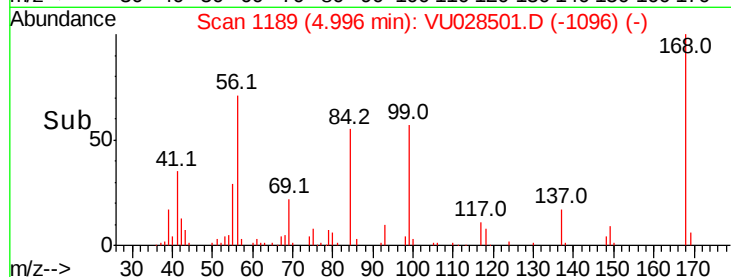
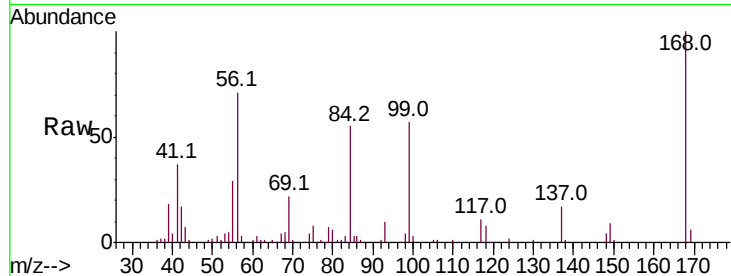
ClientSampleId :

VU1206WBS01

Tot Ion:	56	Resp:	59781
Ion Ratio	Lower	Upper	
56	100		
69	31.6	24.0	36.0
84	76.6	59.7	89.5

Manual Integrations
APPROVED

MMDadoda
12/7/2018 10:35:15 AM



#32

1,1,1-Trichloroethane

Concen: 19.809 ug/l

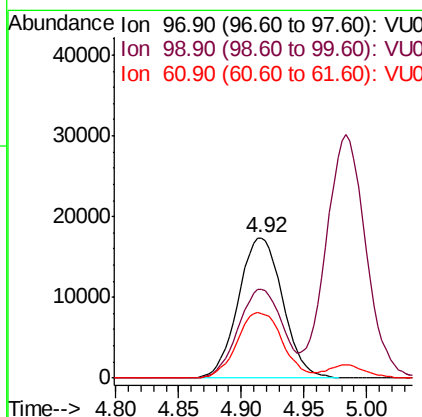
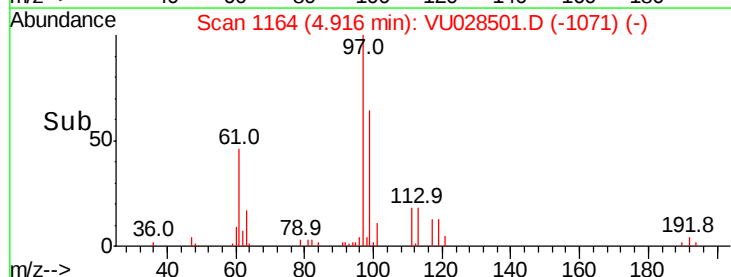
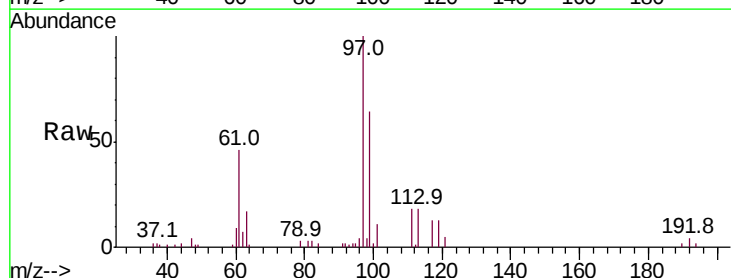
RT: 4.92 min Scan# 1164

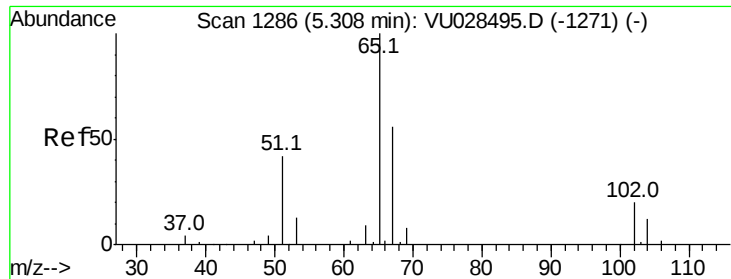
Delta R.T. -0.00 min

Lab File: VU028501.D

Acq: 06 Dec 2018 15:26

Tgt Ion:	97	Resp:	42724
Ion Ratio	Lower	Upper	
97	100		
99	63.1	52.3	78.5
61	47.9	39.0	58.6





#33

1,2-Dichloroethane-d4

Concen: 52.291 ug/l

RT: 5.31 min Scan# 1286

Delta R.T. -0.00 min

Lab File: VU028501.D

Acq: 06 Dec 2018 15:26

Instrument :

MSVOA_U

ClientSampleId :

VU1206WBS01

Tot Ion: 65 Resp: 88679

Ion Ratio Lower Upper

65 100

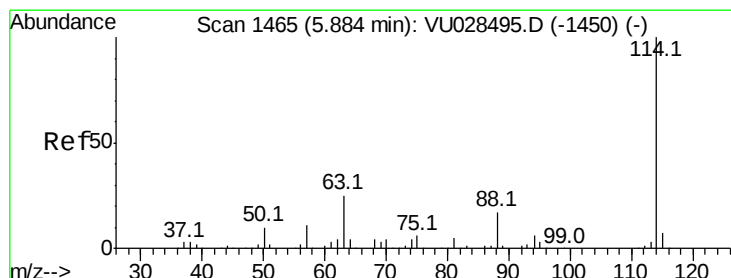
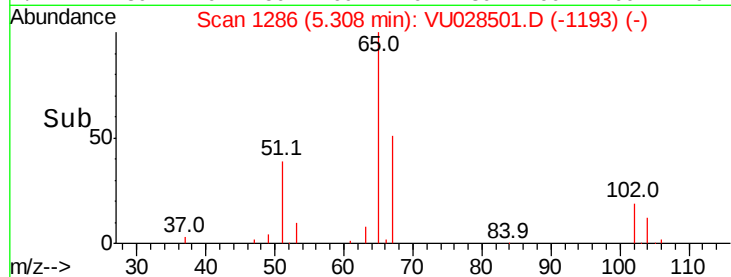
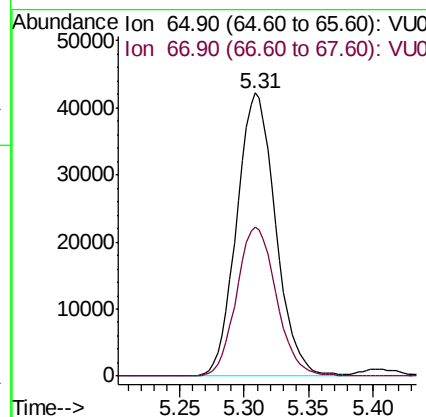
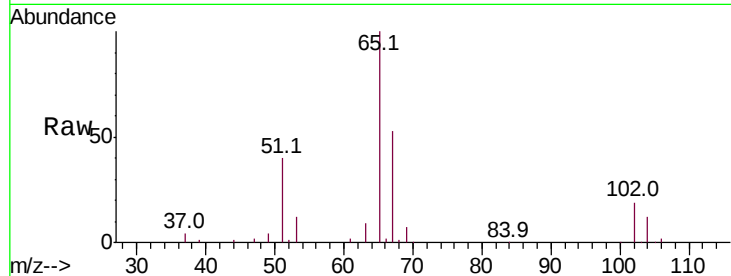
67 53.9 0.0 110.6

Manual Integrations

APPROVED

MMDadoda

12/7/2018 10:35:15 AM



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.89 min Scan# 1466

Delta R.T. 0.00 min

Lab File: VU028501.D

Acq: 06 Dec 2018 15:26

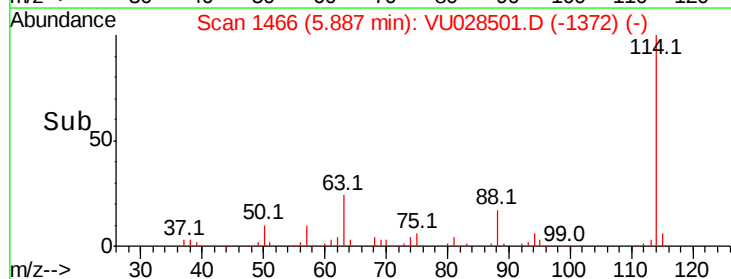
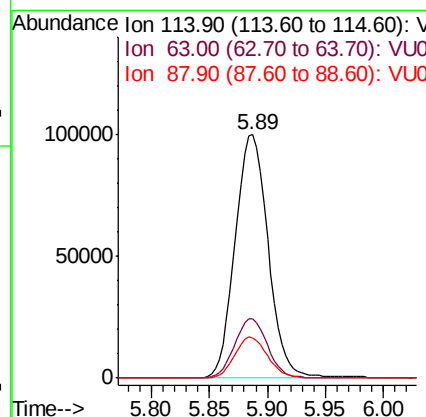
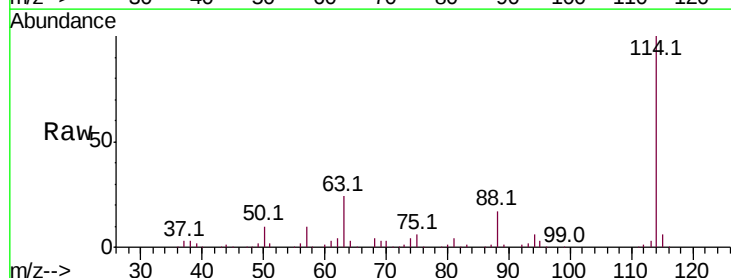
Tgt Ion: 114 Resp: 197575

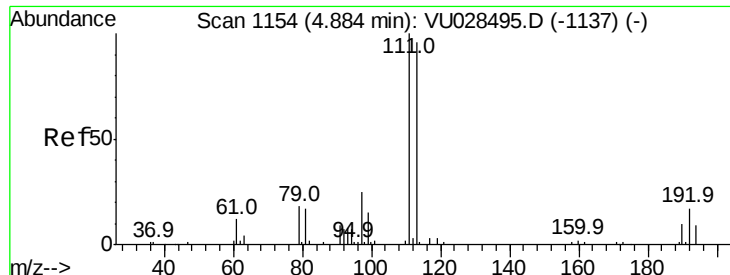
Ion Ratio Lower Upper

114 100

63 24.5 0.0 49.2

88 16.7 0.0 33.4





#35

Dibromofluoromethane

Concen: 51.398 ug/l

RT: 4.88 min Scan# 1154

Delta R.T. -0.00 min

Lab File: VU028501.D

Acq: 06 Dec 2018 15:26

Instrument :

MSVOA_U

ClientSampleId :

VU1206WBS01

Tot Ion:113 Resp: 63906

Ion Ratio Lower Upper

113 100

111 104.2 83.4 125.0

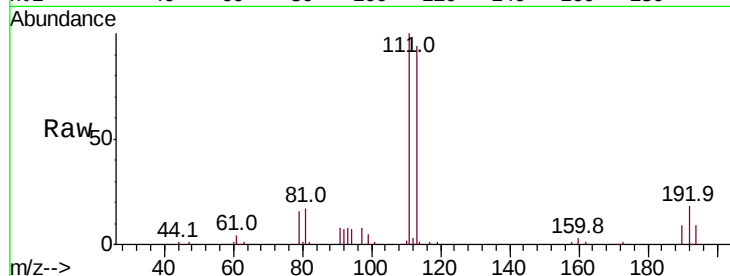
192 19.3 14.8 22.2

Manual Integrations

APPROVED

MMDadoda

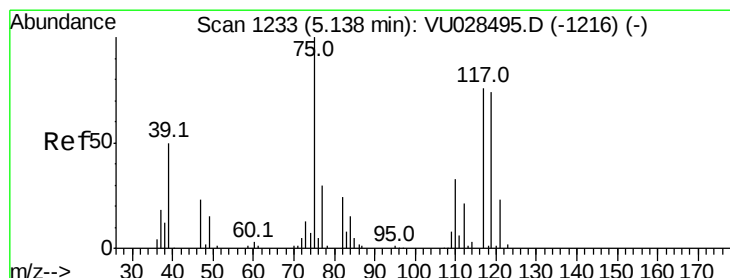
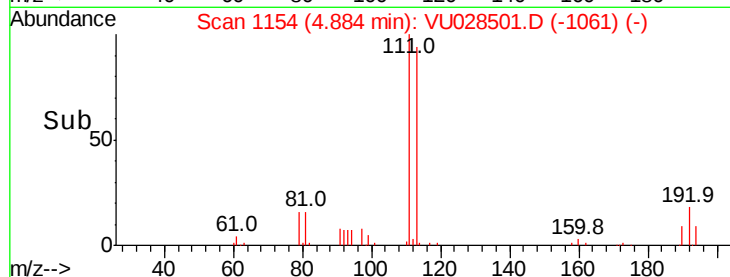
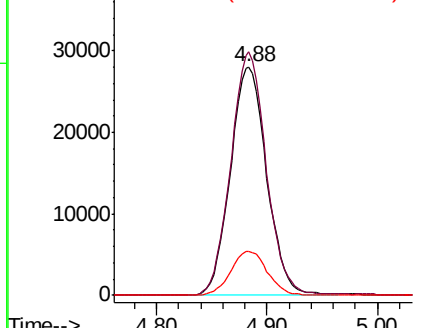
12/7/2018 10:35:15 AM



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 19.263 ug/l

RT: 5.14 min Scan# 1233

Delta R.T. -0.00 min

Lab File: VU028501.D

Acq: 06 Dec 2018 15:26

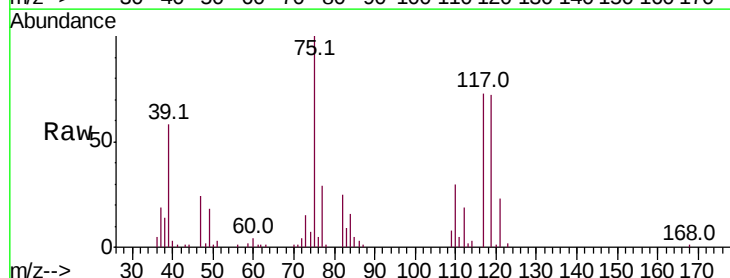
Tgt Ion: 75 Resp: 41647

Ion Ratio Lower Upper

75 100

110 31.5 16.1 48.2

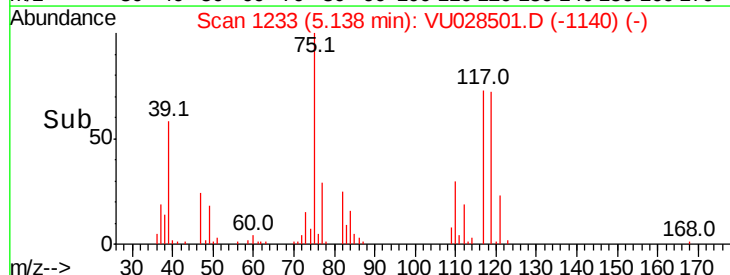
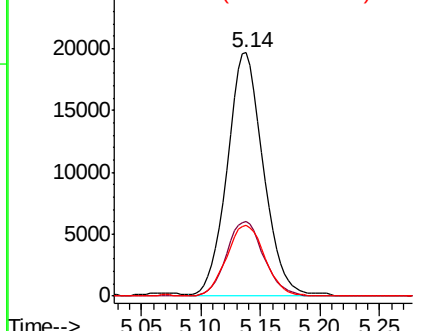
77 30.5 24.5 36.7

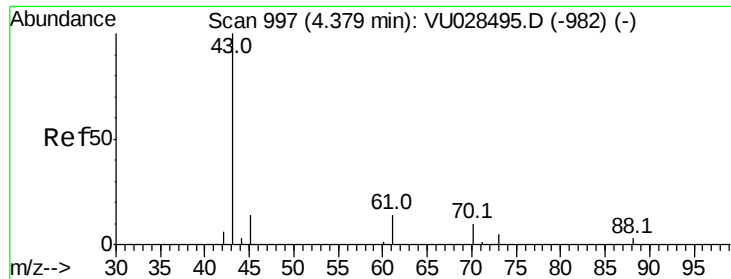


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VU0





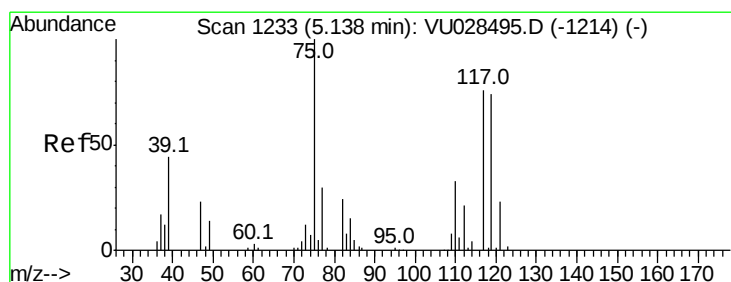
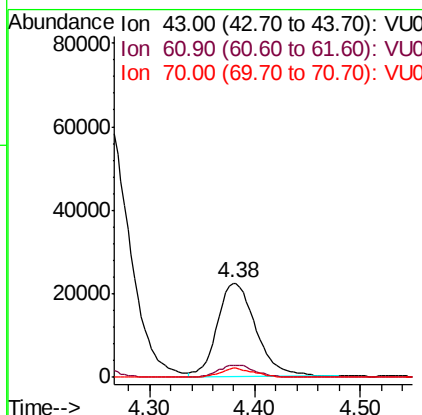
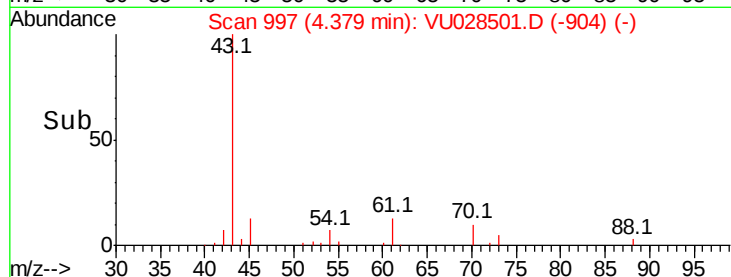
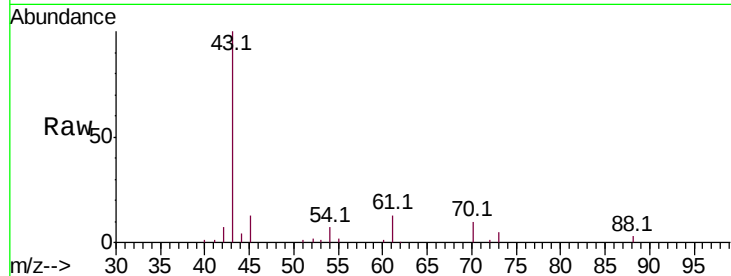
#37
Ethyl Acetate
Concen: 20.080 ug/l
RT: 4.38 min Scan# 997
Delta R.T. -0.00 min
Lab File: VU028501.D
Acq: 06 Dec 2018 15:26

Instrument :
MSVOA_U
ClientSampleId :
VU1206WBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	12.9	11.0	16.4
70	8.8	7.4	11.0

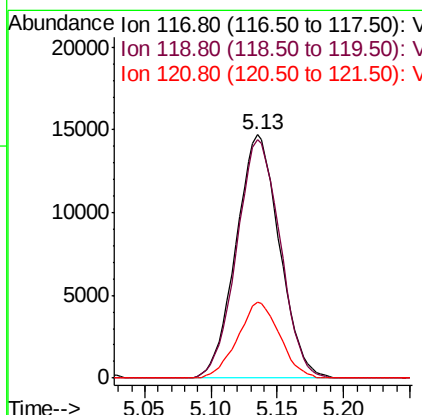
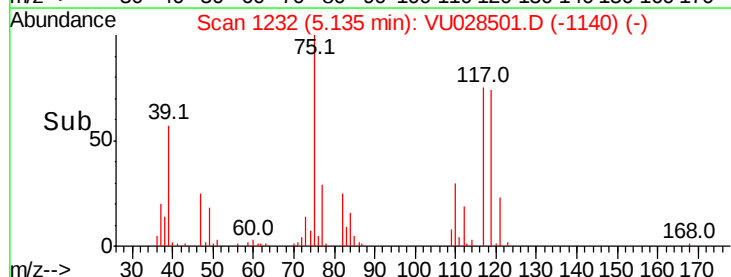
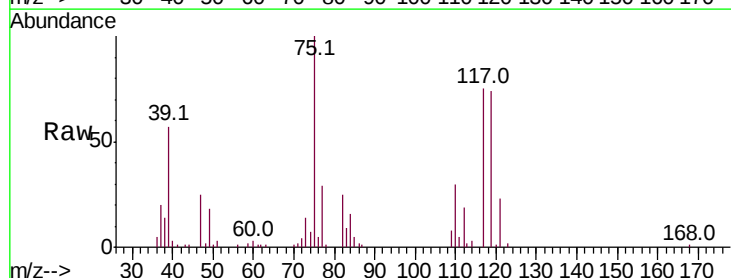
Manual Integrations
APPROVED

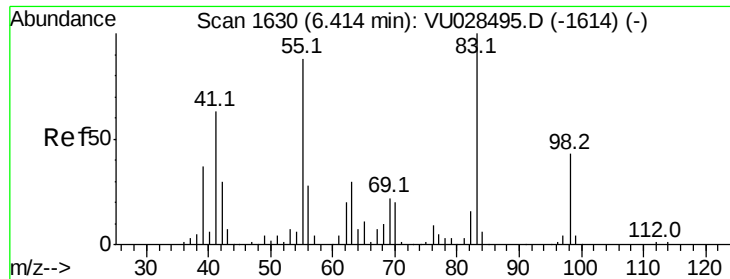
MMDadoda
12/7/2018 10:35:15 AM



#38
Carbon Tetrachloride
Concen: 19.238 ug/l
RT: 5.13 min Scan# 1232
Delta R.T. -0.00 min
Lab File: VU028501.D
Acq: 06 Dec 2018 15:26

Tgt Ion	Ratio	Lower	Upper
117	100		
119	98.2	77.6	116.4
121	31.1	24.6	36.8





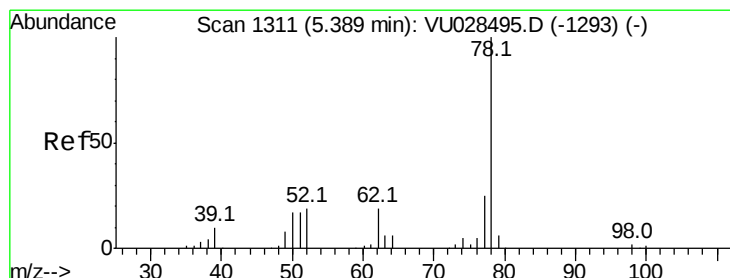
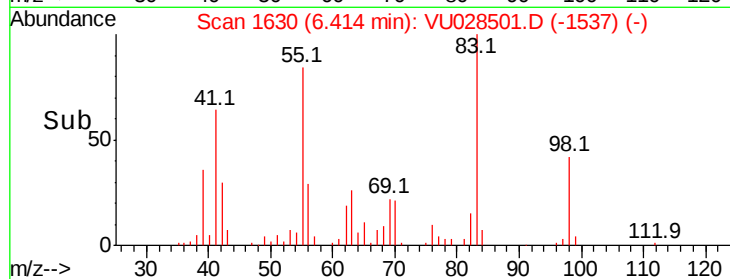
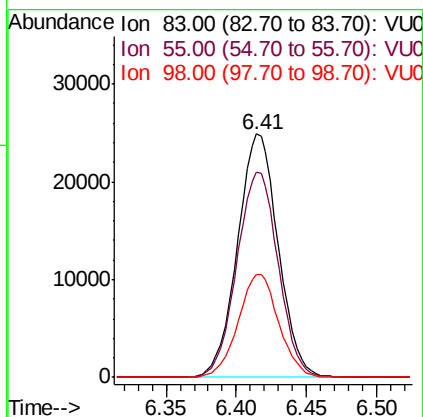
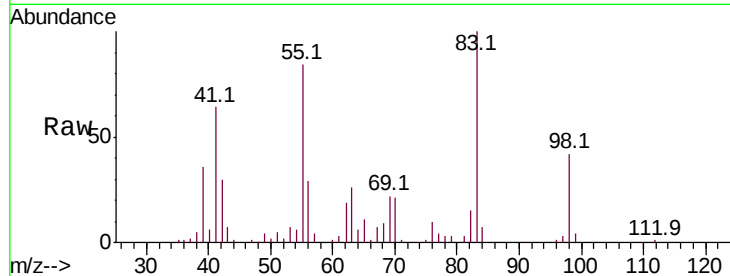
#39
Methvlcvclohexane
Concen: 19.064 ug/l
RT: 6.41 min Scan# 1630
Delta R.T. -0.00 min
Lab File: VU028501.D
Acq: 06 Dec 2018 15:26

Instrument :
MSVOA_U
ClientSampleId :
VU1206WBS01

Tot Ion	Ratio	Lower	Upper
83	100		
55	84.5	70.2	105.2
98	42.1	34.2	51.4

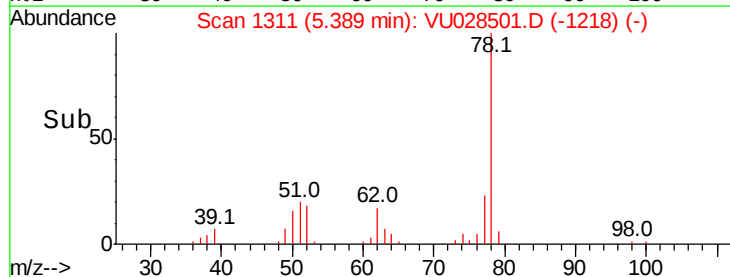
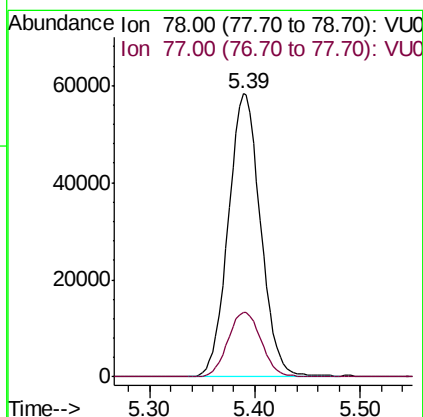
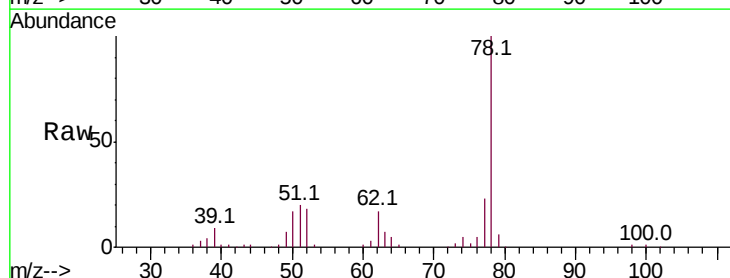
Manual Integrations
APPROVED

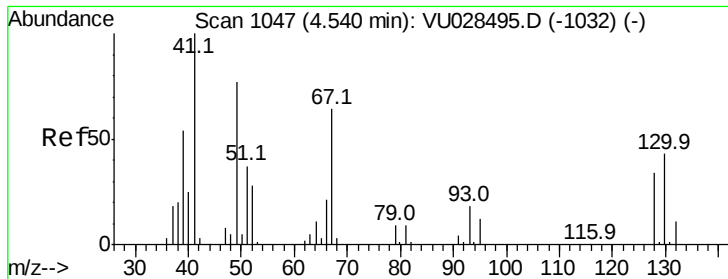
MMDadoda
12/7/2018 10:35:15 AM



#40
Benzene
Concen: 19.391 ug/l
RT: 5.39 min Scan# 1311
Delta R.T. -0.00 min
Lab File: VU028501.D
Acq: 06 Dec 2018 15:26

Tgt Ion	Ratio	Lower	Upper
78	100		
77	22.8	19.9	29.9





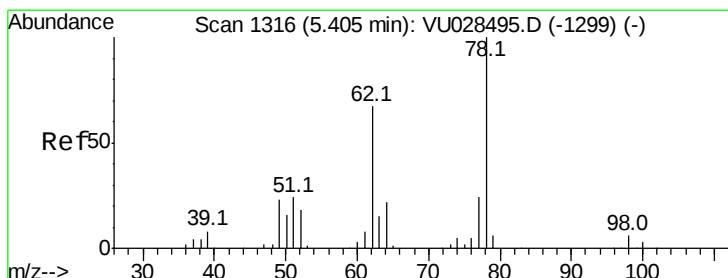
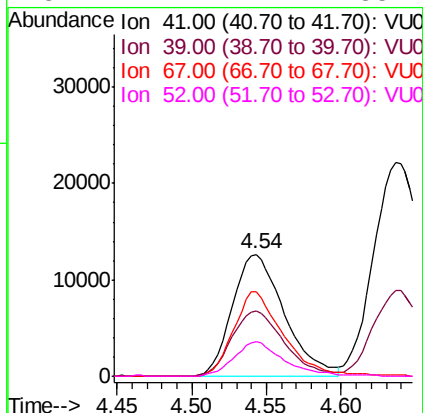
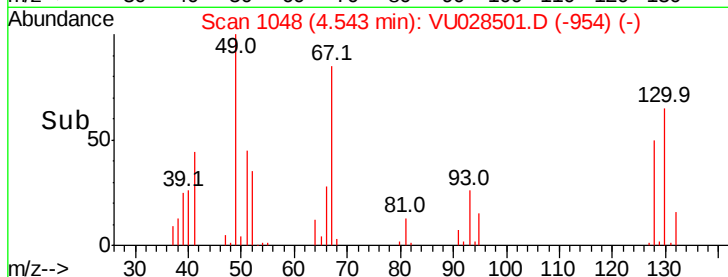
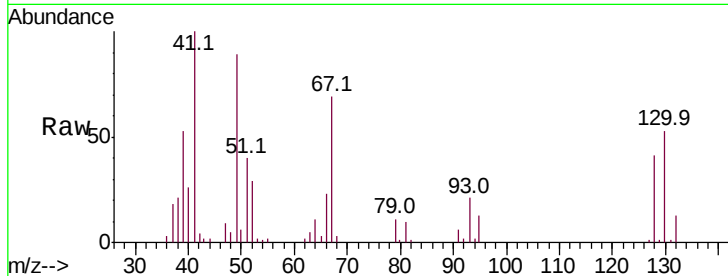
#41
Methacrylonitrile
Concen: 19.988 ug/l
RT: 4.54 min Scan# 1048
Delta R.T. 0.00 min
Lab File: VU028501.D
Acq: 06 Dec 2018 15:26

Instrument :
MSVOA_U
ClientSampleId :
VU1206WBS01

Tot Ion	Ion	Ratio	Lower	Upper
41	100			
39	54.1	43.3	64.9	
67	65.9	53.6	80.4	
52	27.4	22.1	33.1	

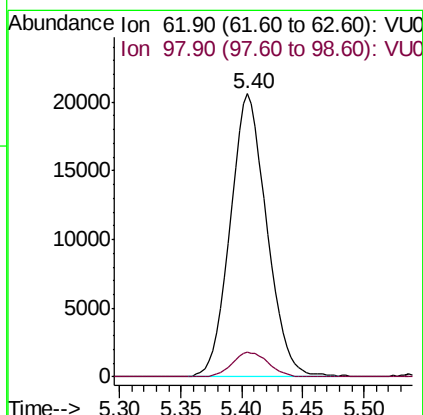
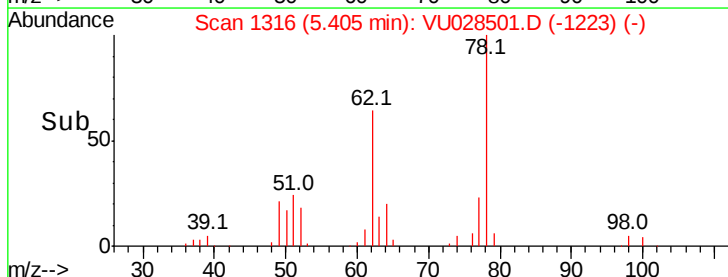
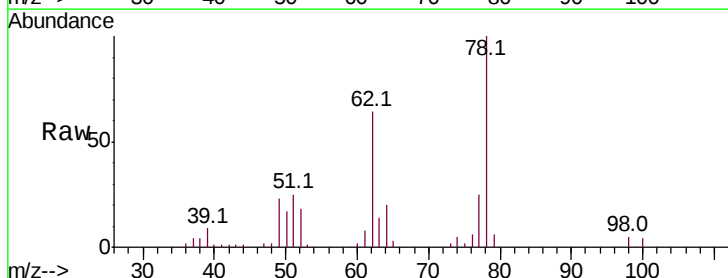
Manual Integrations
APPROVED

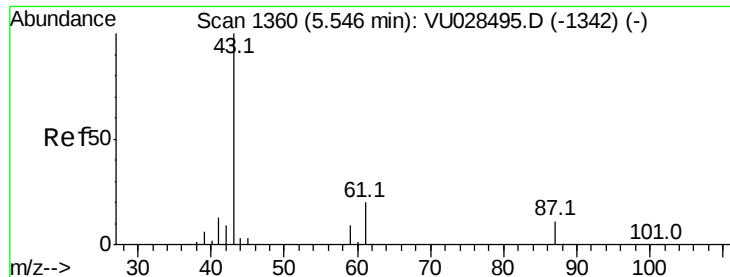
MMDadoda
12/7/2018 10:35:15 AM



#42
1,2-Dichloroethane
Concen: 19.230 ug/l
RT: 5.40 min Scan# 1316
Delta R.T. -0.00 min
Lab File: VU028501.D
Acq: 06 Dec 2018 15:26

Tgt Ion	Ion	Ratio	Lower	Upper
62	100			
98	8.5	0.0	17.2	





#43

Isopropyl Acetate

Concen: 19.733 ug/l

RT: 5.55 min Scan# 1361

Delta R.T. 0.00 min

Lab File: VU028501.D

Acq: 06 Dec 2018 15:26

Instrument :

MSVOA_U

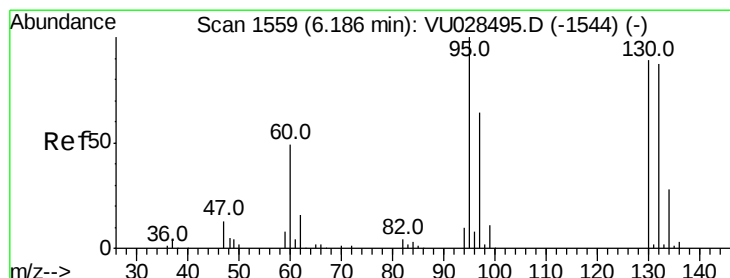
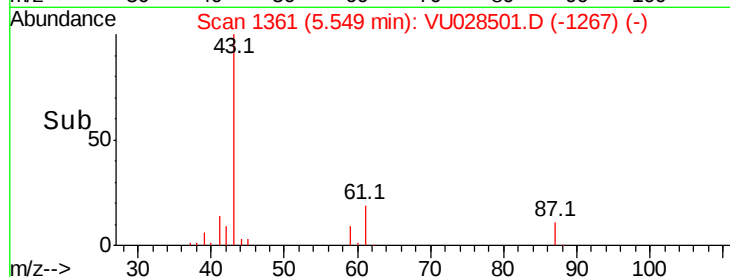
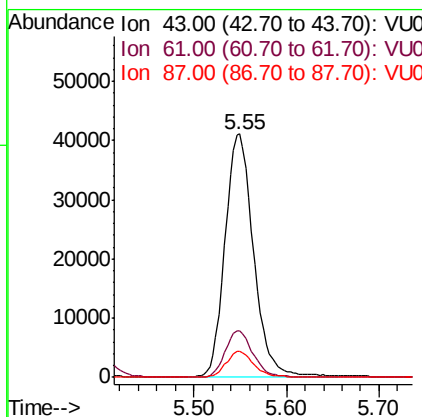
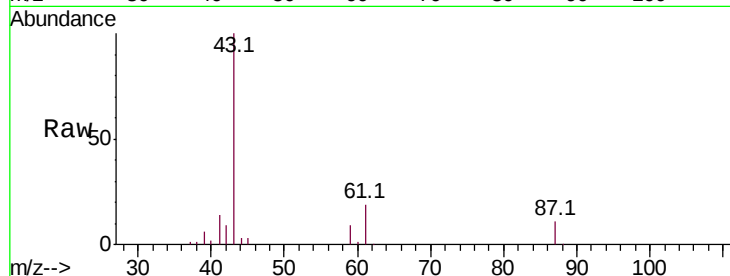
ClientSampleId :

VU1206WBS01

Tot Ion:	43	Resp:	87234
Ion	Ratio	Lower	Upper
43	100		
61	18.8	15.5	23.3
87	10.5	8.7	13.1

Manual Integrations
APPROVED

MMDadoda
12/7/2018 10:35:15 AM



#44

Trichloroethene

Concen: 19.586 ug/l

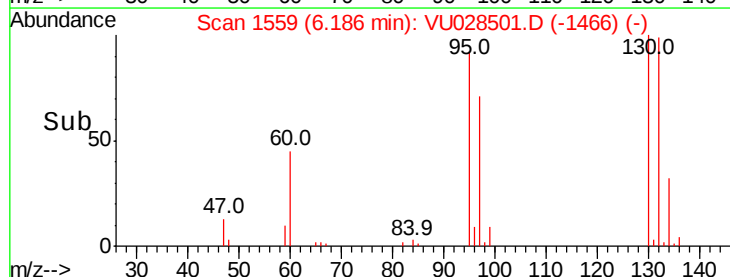
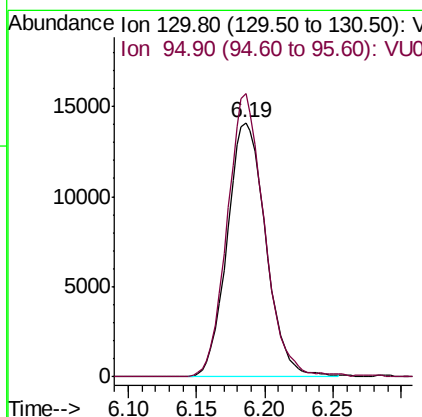
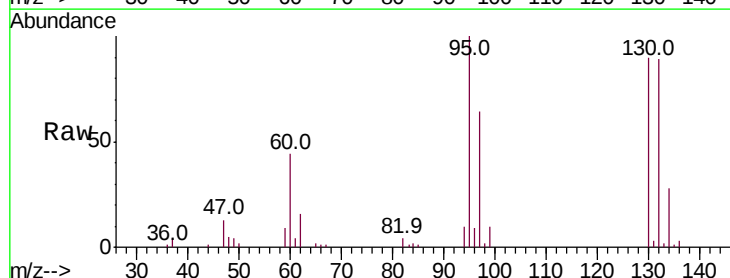
RT: 6.19 min Scan# 1559

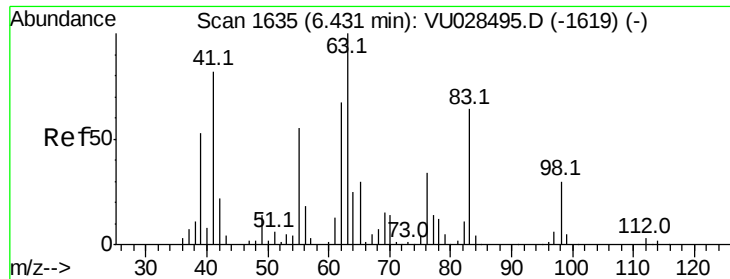
Delta R.T. -0.00 min

Lab File: VU028501.D

Acq: 06 Dec 2018 15:26

Tgt Ion:	130	Resp:	27730
Ion	Ratio	Lower	Upper
130	100		
95	111.3	0.0	224.0





#45

1,2-Dichloropropane

Concen: 19.687 ug/l

RT: 6.43 min Scan# 1636

Delta R.T. 0.00 min

Lab File: VU028501.D

Acq: 06 Dec 2018 15:26

Instrument :

MSVOA_U

ClientSampled :

VU1206WBS01

Tot Ion: 63 Resp: 35253

Ion Ratio Lower Upper

63 100

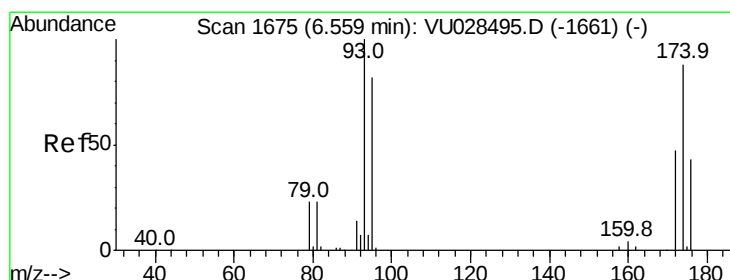
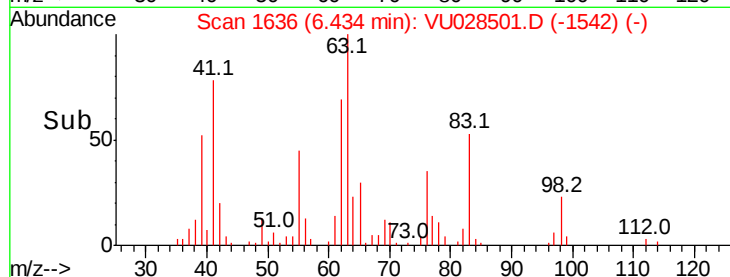
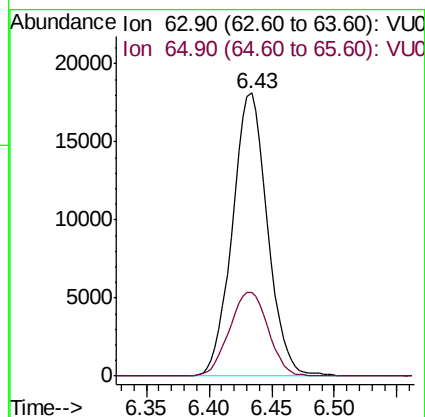
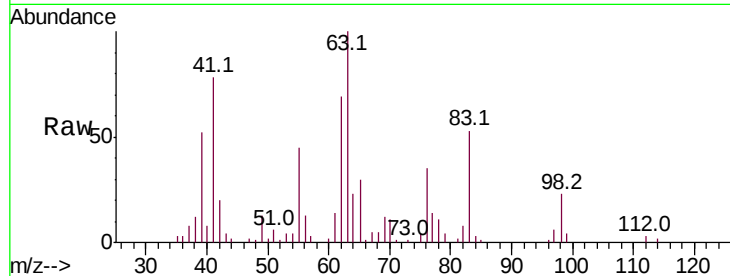
65 29.6 24.2 36.4

Manual Integrations

APPROVED

MMDadoda

12/7/2018 10:35:15 AM



#46

Dibromomethane

Concen: 19.606 ug/l

RT: 6.56 min Scan# 1675

Delta R.T. -0.00 min

Lab File: VU028501.D

Acq: 06 Dec 2018 15:26

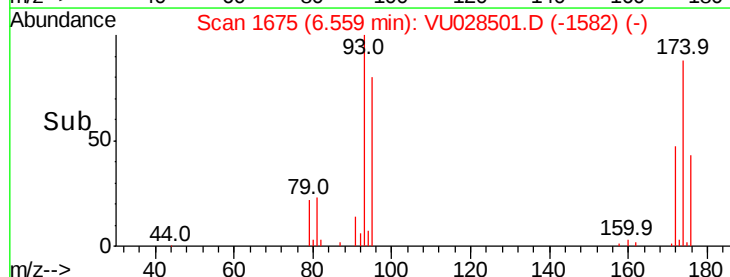
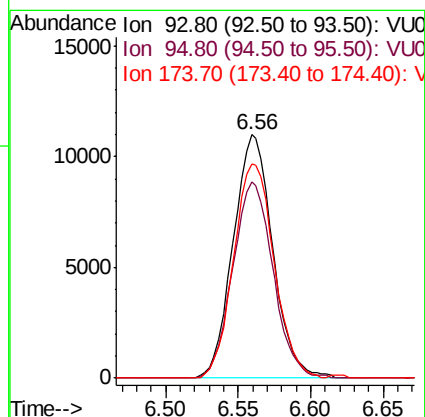
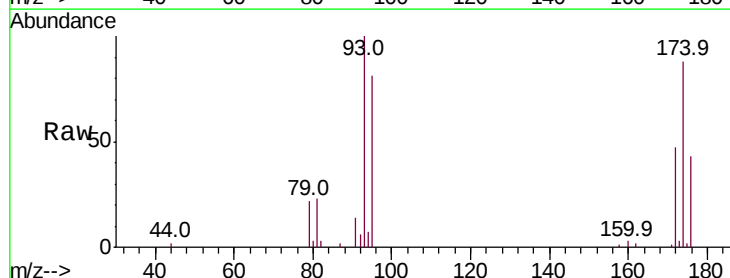
Tgt Ion: 93 Resp: 20830

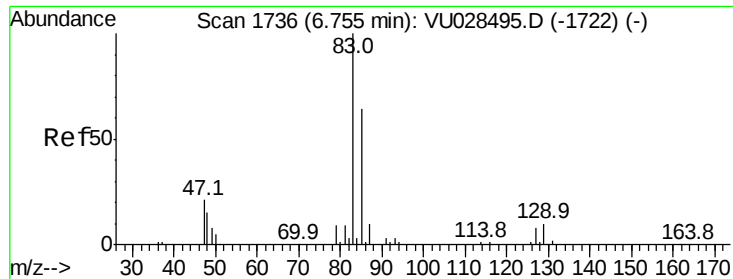
Ion Ratio Lower Upper

93 100

95 82.0 65.4 98.2

174 90.1 72.2 108.4





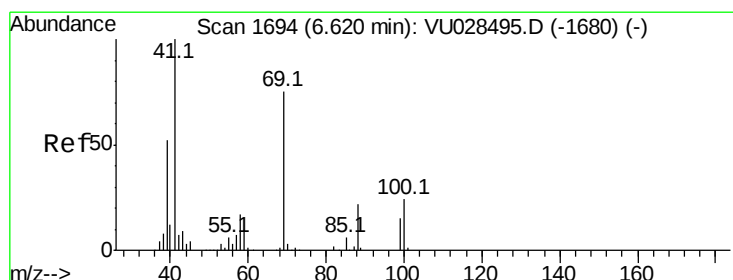
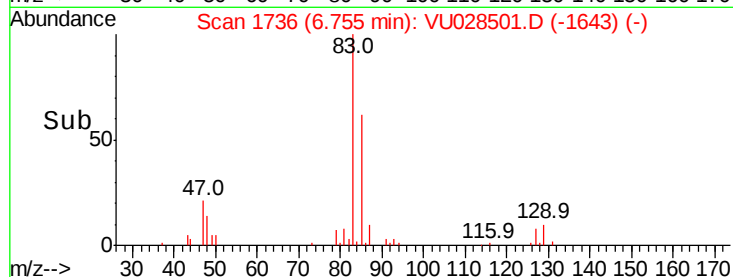
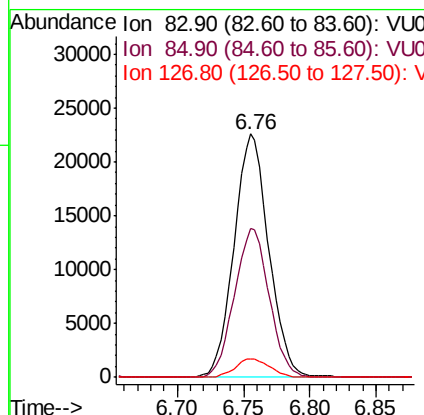
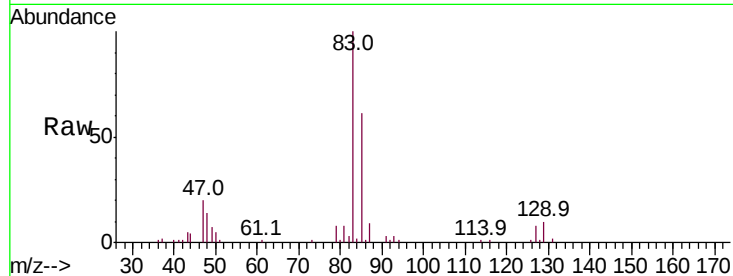
#47
Bromodichloromethane
Concen: 19.862 ug/l
RT: 6.76 min Scan# 1736
Delta R.T. -0.00 min
Lab File: VU028501.D
Acq: 06 Dec 2018 15:26

Instrument :
MSVOA_U
ClientSampleId :
VU1206WBS01

Tot Ion	Ratio	Lower	Upper
83	100		
85	60.9	51.5	77.3
127	7.7	6.2	9.4

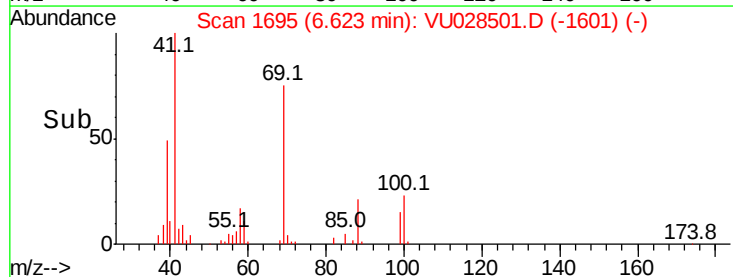
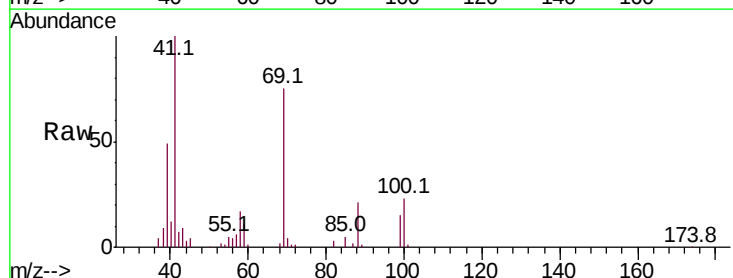
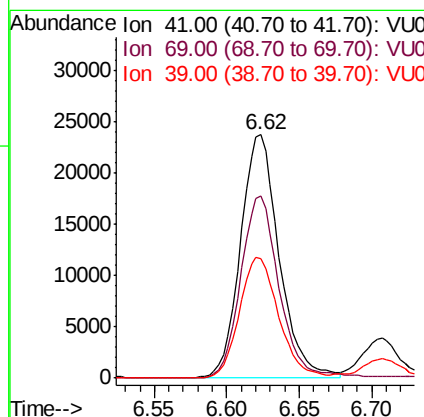
Manual Integrations
APPROVED

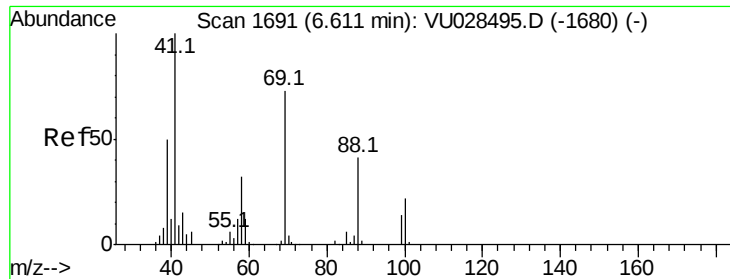
MMDadoda
12/7/2018 10:35:15 AM



#48
Methyl methacrylate
Concen: 20.014 ug/l
RT: 6.62 min Scan# 1695
Delta R.T. 0.00 min
Lab File: VU028501.D
Acq: 06 Dec 2018 15:26

Tgt Ion	Ratio	Lower	Upper
41	100		
69	74.5	60.4	90.6
39	50.5	41.1	61.7





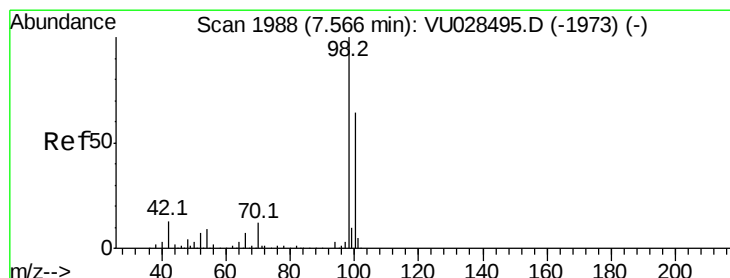
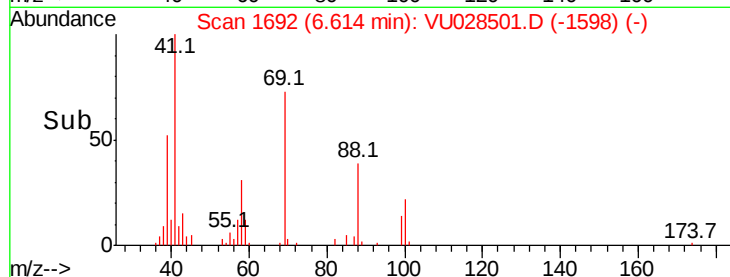
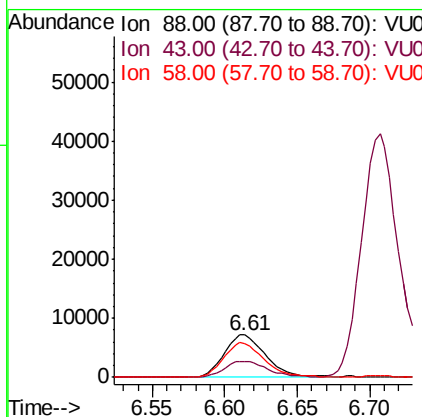
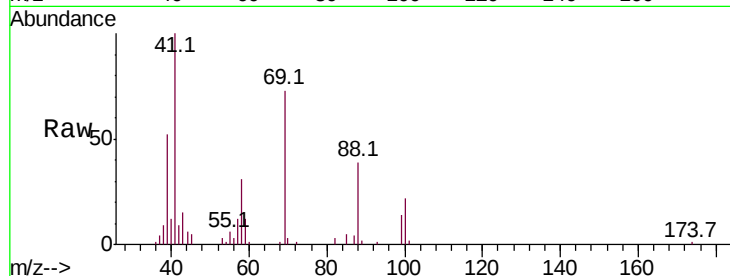
#49
1,4-Dioxane
Concen: 408.072 ug/l
RT: 6.61 min Scan# 1692
Delta R.T. 0.00 min
Lab File: VU028501.D
Acq: 06 Dec 2018 15:26

Instrument :
MSVOA_U
ClientSampleId :
VU1206WBS01

Tot Ion	Ratio	Lower	Upper
88	100		
43	39.7	30.9	46.3
58	80.1	62.4	93.6

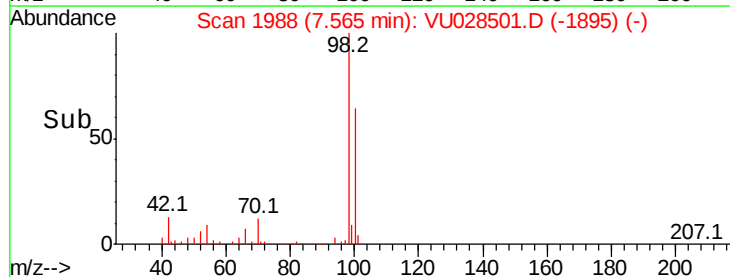
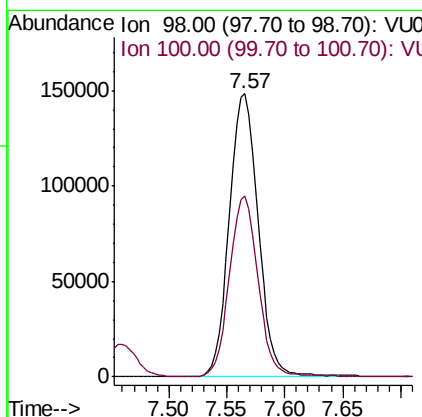
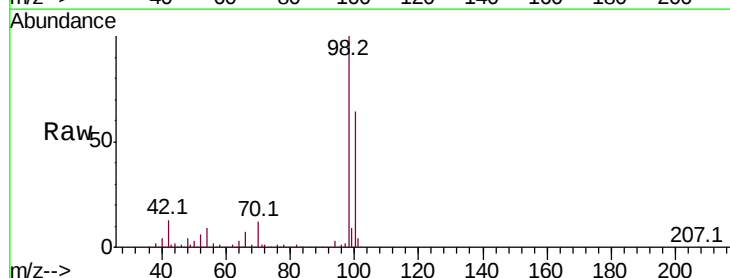
Manual Integrations
APPROVED

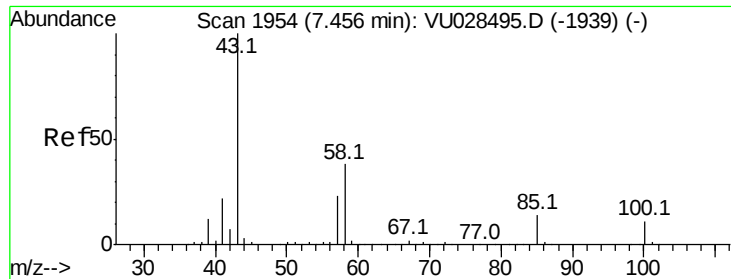
MMDadoda
12/7/2018 10:35:15 AM



#50
Toluene-d8
Concen: 52.363 ug/l
RT: 7.57 min Scan# 1988
Delta R.T. -0.00 min
Lab File: VU028501.D
Acq: 06 Dec 2018 15:26

Tgt Ion	Ratio	Lower	Upper
98	100		
100	62.6	51.0	76.6





#51

4-Methyl-2-Pentanone

Concen: 97.717 ug/l

RT: 7.46 min Scan# 1955

Delta R.T. 0.00 min

Lab File: VU028501.D

Acq: 06 Dec 2018 15:26

Instrument :

MSVOA_U

ClientSampleId :

VU1206WBS01

Tot Ion: 43 Resp: 272451

Ion Ratio Lower Upper

43 100

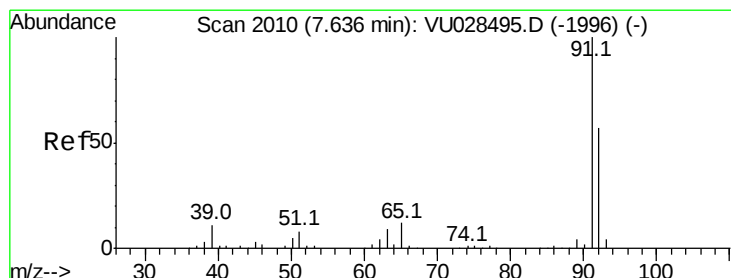
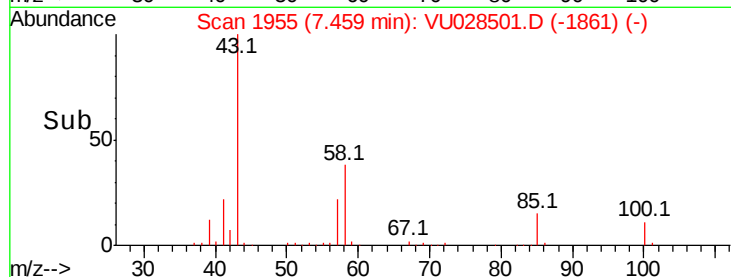
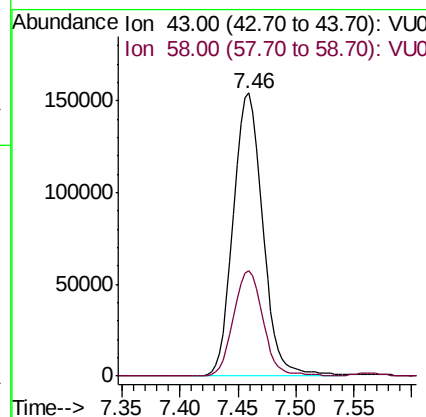
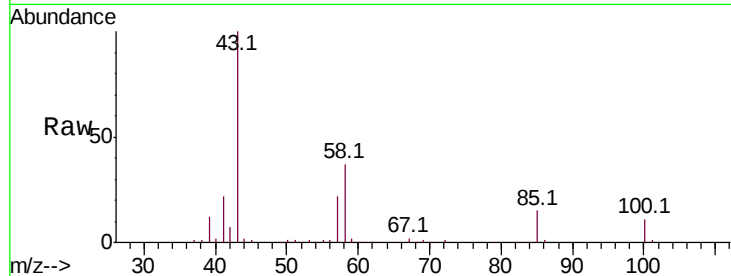
58 37.4 30.2 45.2

Manual Integrations

APPROVED

MMDadoda

12/7/2018 10:35:15 AM



#52

Toluene

Concen: 19.541 ug/l

RT: 7.64 min Scan# 2010

Delta R.T. -0.00 min

Lab File: VU028501.D

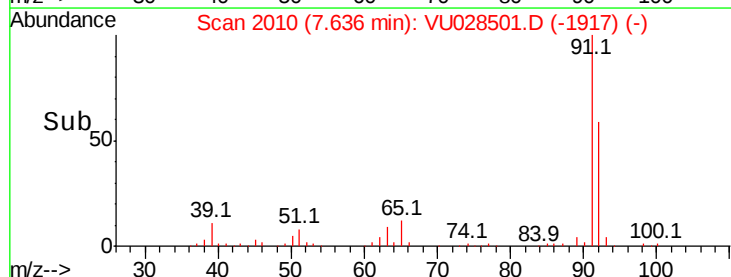
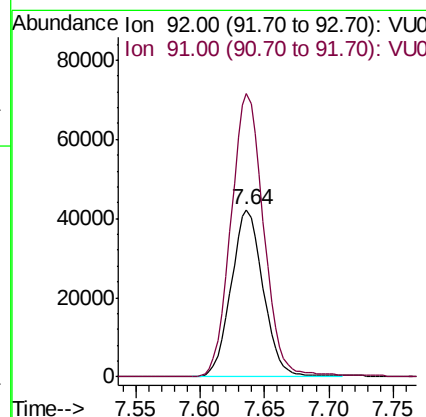
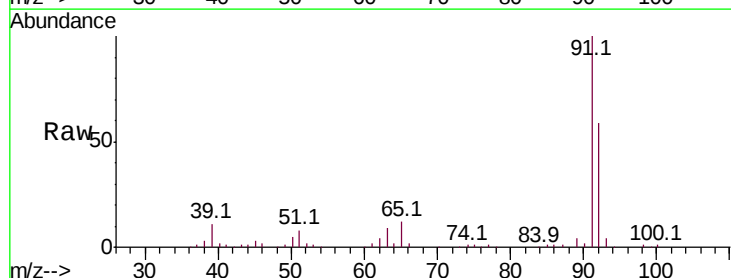
Acq: 06 Dec 2018 15:26

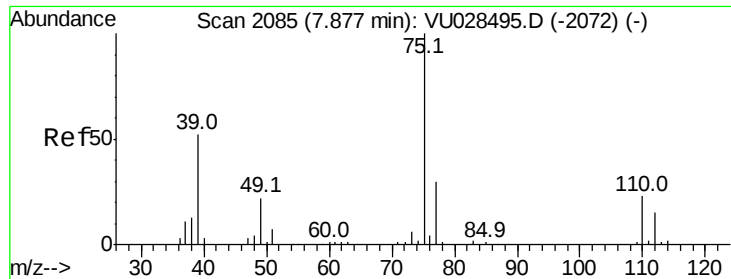
Tgt Ion: 92 Resp: 73231

Ion Ratio Lower Upper

92 100

91 173.1 140.2 210.4





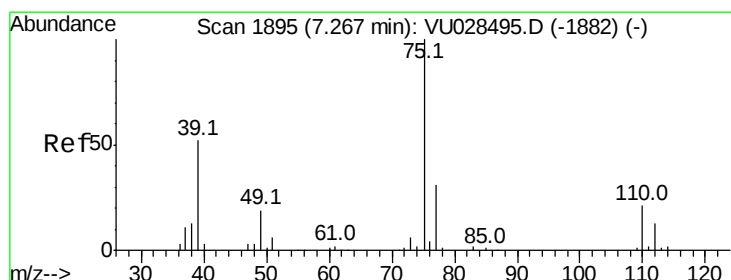
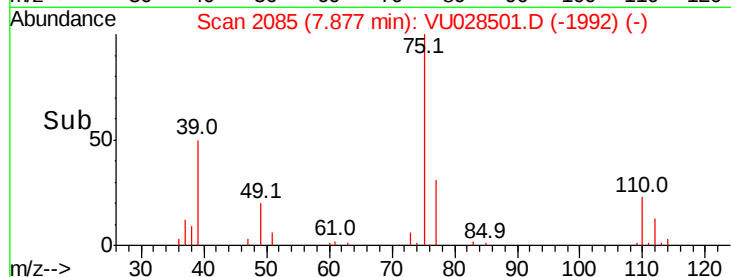
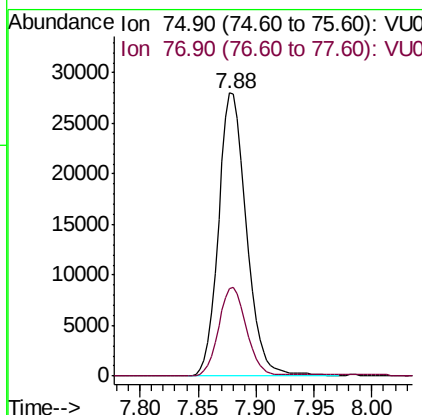
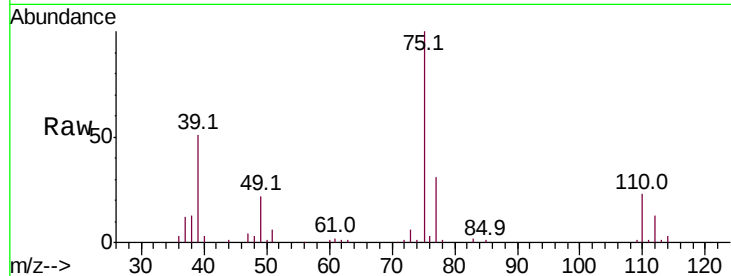
#53
t-1,3-Dichloropropene
Concen: 19.092 ug/l
RT: 7.88 min Scan# 2085
Delta R.T. -0.00 min
Lab File: VU028501.D
Acq: 06 Dec 2018 15:26

Instrument :
MSVOA_U
ClientSampleId :
VU1206WBS01

Tot Ion: 75 Resp: 47009
Ion Ratio Lower Upper
75 100
77 30.7 24.2 36.4

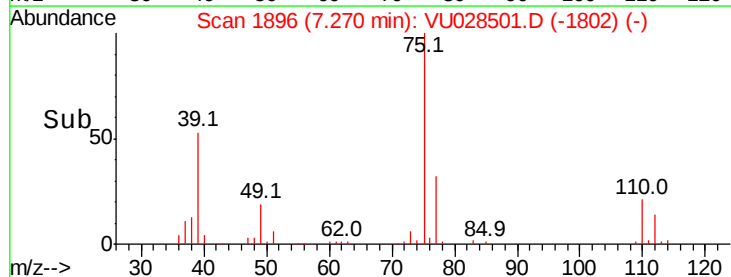
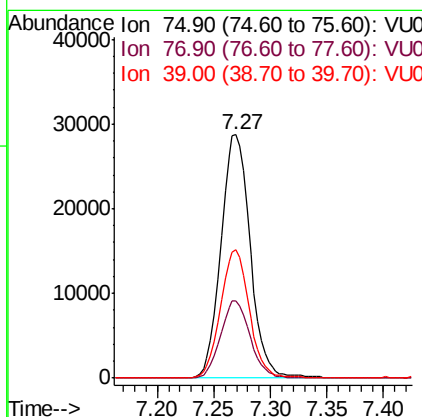
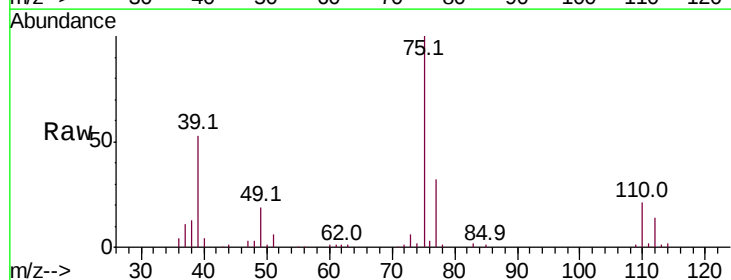
Manual Integrations
APPROVED

MMDadoda
12/7/2018 10:35:15 AM



#54
cis-1,3-Dichloropropene
Concen: 19.386 ug/l
RT: 7.27 min Scan# 1896
Delta R.T. 0.00 min
Lab File: VU028501.D
Acq: 06 Dec 2018 15:26

Tgt Ion: 75 Resp: 51787
Ion Ratio Lower Upper
75 100
77 31.8 25.0 37.4
39 52.5 41.3 61.9





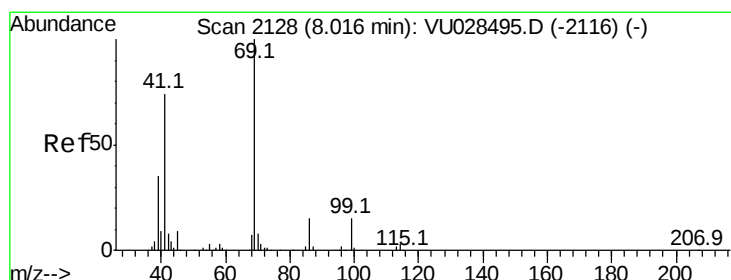
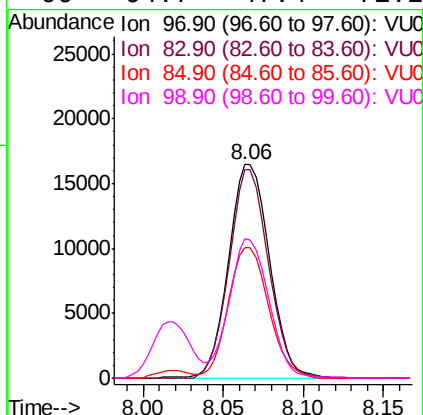
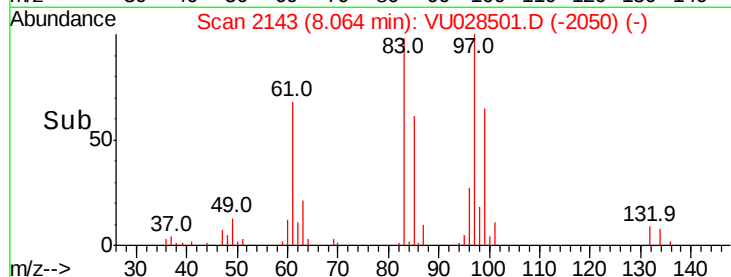
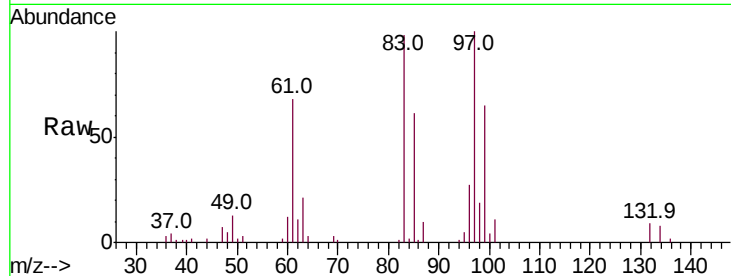
#55
 1,1,2-Trichloroethane
 Concen: 19.400 ug/l
 RT: 8.06 min Scan# 2143
 Delta R.T. -0.00 min
 Lab File: VU028501.D
 Acq: 06 Dec 2018 15:26

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1206WBS01

Tot Ion	97	Resp	28739
Ion	Ratio	Lower	Upper
97	100		
83	97.6	72.4	108.6
85	61.1	46.0	69.0
99	64.7	47.4	71.2

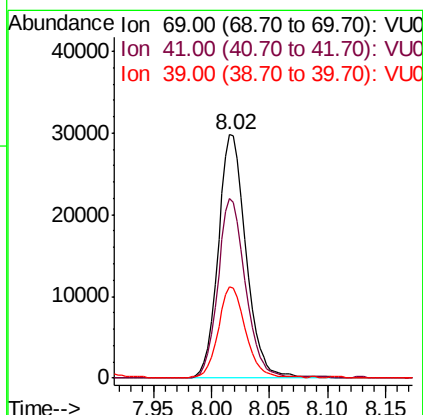
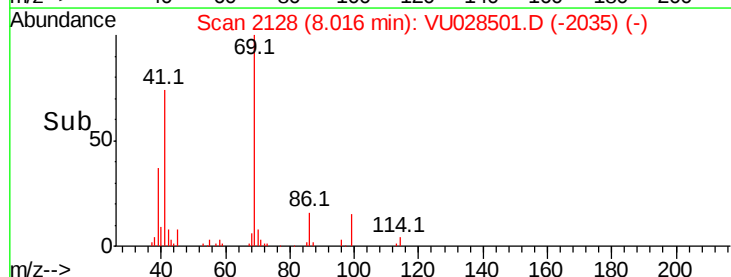
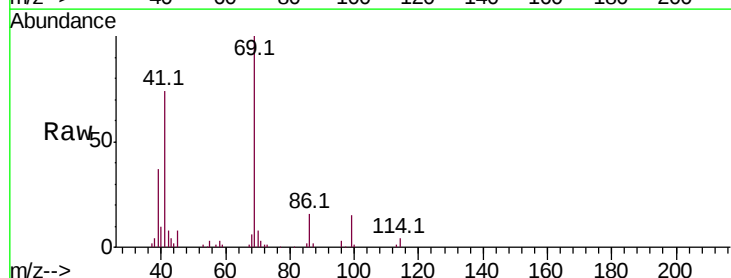
Manual Integrations
 APPROVED

MMDadoda
 12/7/2018 10:35:15 AM



#56
 Ethyl methacrylate
 Concen: 19.582 ug/l
 RT: 8.02 min Scan# 2128
 Delta R.T. -0.00 min
 Lab File: VU028501.D
 Acq: 06 Dec 2018 15:26

Tgt Ion	69	Resp	49675
Ion	Ratio	Lower	Upper
69	100		
41	73.3	59.1	88.7
39	35.8	28.4	42.6





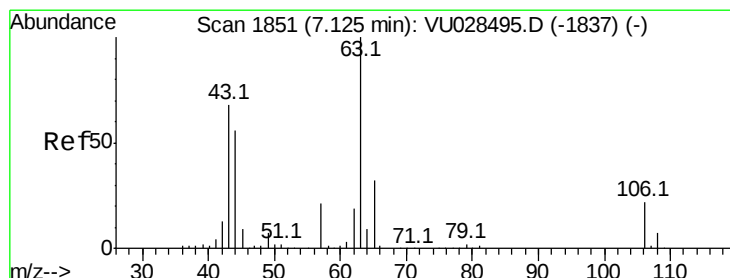
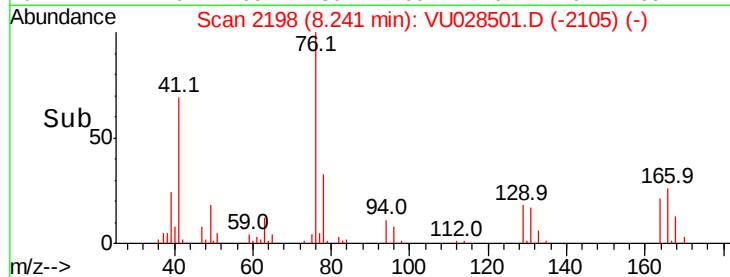
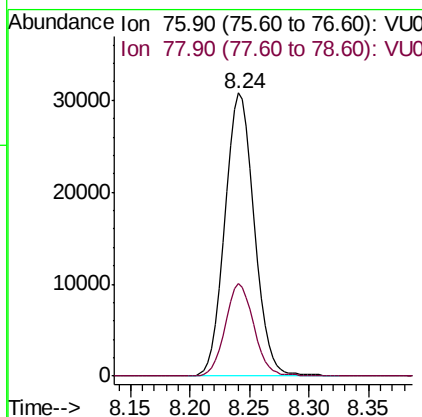
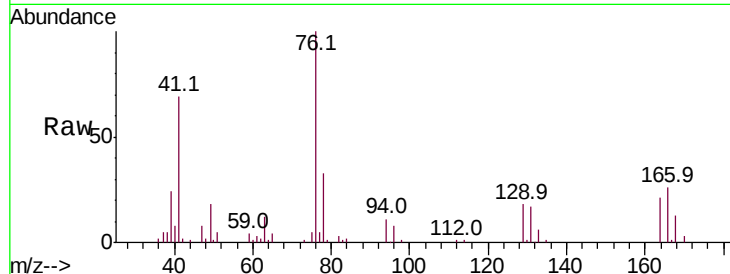
#57
 1,3-Dichloropropane
 Concen: 19.215 ug/l
 RT: 8.24 min Scan# 2198
 Delta R.T. -0.00 min
 Lab File: VU028501.D
 Acq: 06 Dec 2018 15:26

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1206WBS01

Tot Ion: 76 Resp: 52839
 Ion Ratio Lower Upper
 76 100
 78 31.6 25.2 37.8

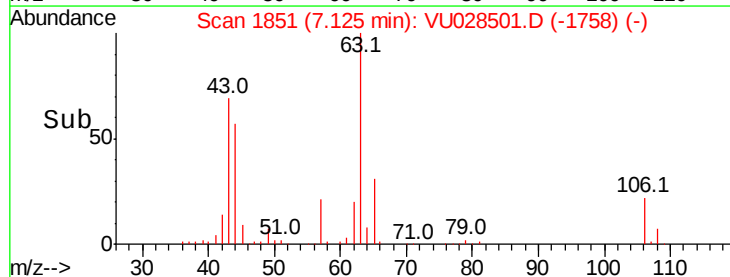
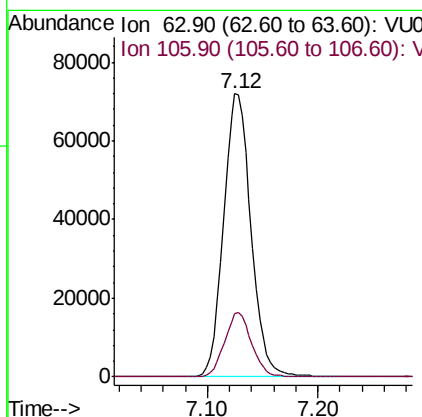
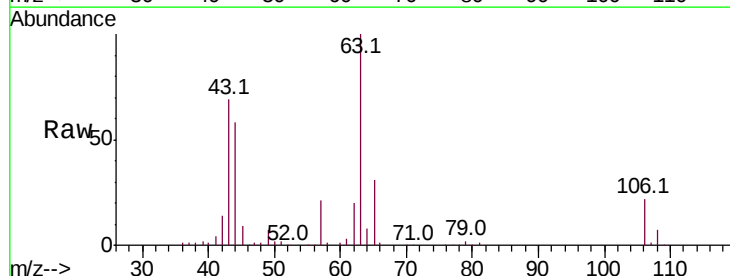
Manual Integrations
 APPROVED

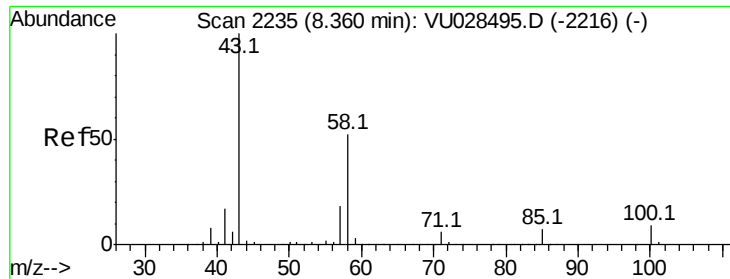
MMDadoda
 12/7/2018 10:35:15 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 95.562 ug/l
 RT: 7.12 min Scan# 1851
 Delta R.T. -0.00 min
 Lab File: VU028501.D
 Acq: 06 Dec 2018 15:26

Tgt Ion: 63 Resp: 124167
 Ion Ratio Lower Upper
 63 100
 106 22.3 17.8 26.6





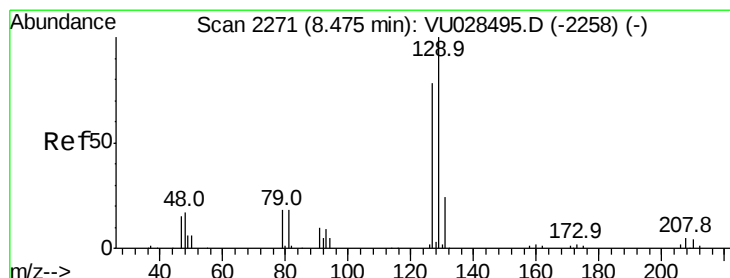
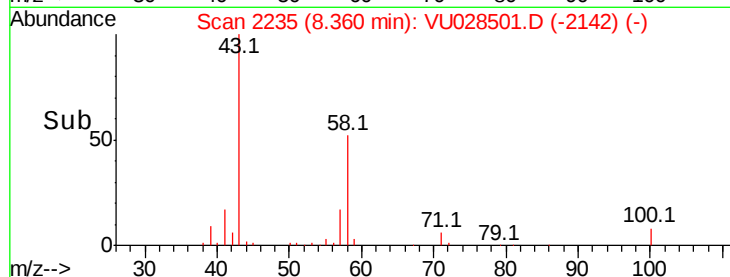
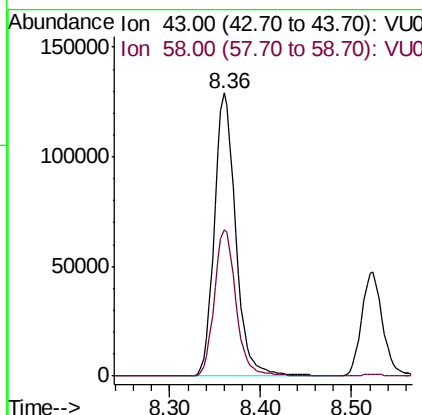
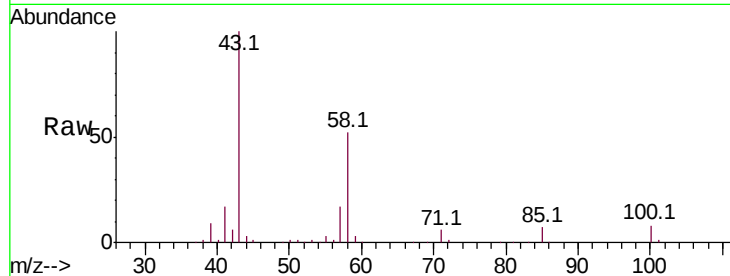
#59
2-Hexanone
Concen: 95.353 ug/l
RT: 8.36 min Scan# 2235
Delta R.T. -0.00 min
Lab File: VU028501.D
Acq: 06 Dec 2018 15:26

Instrument :
MSVOA_U
ClientSampleId :
VU1206WBS01

Tot Ion: 43 Resp: 210721
Ion Ratio Lower Upper
43 100
58 52.4 25.9 77.6

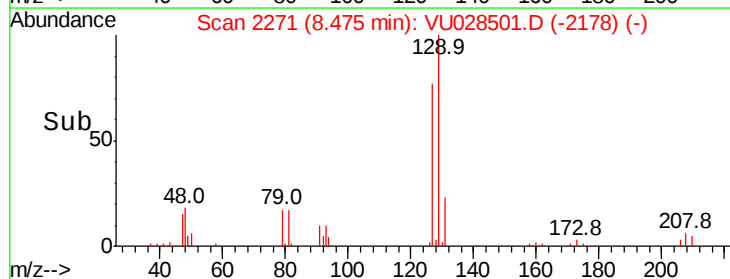
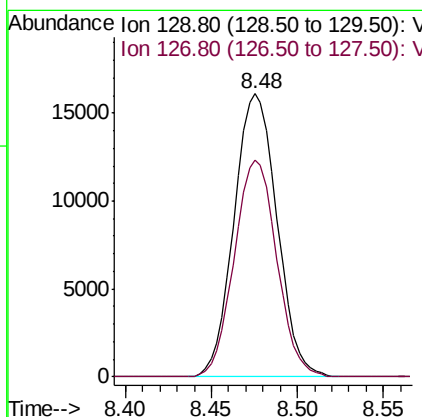
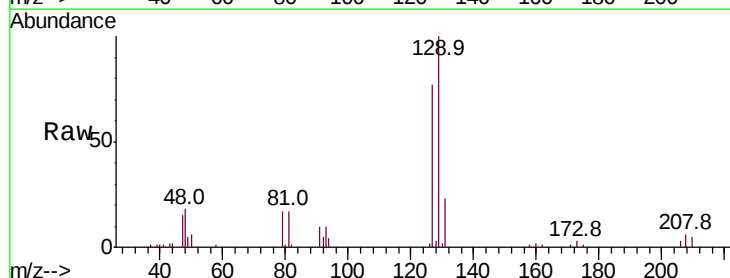
Manual Integrations
APPROVED

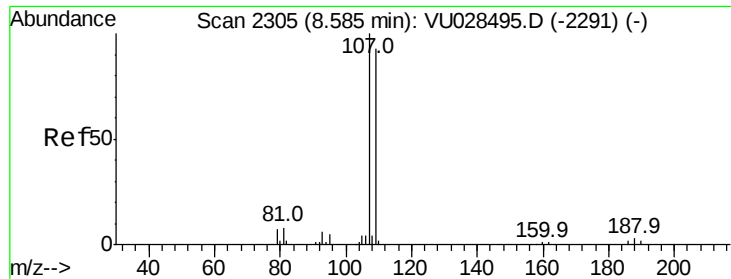
MMDadoda
12/7/2018 10:35:15 AM



#60
Dibromochloromethane
Concen: 19.268 ug/l
RT: 8.48 min Scan# 2271
Delta R.T. -0.00 min
Lab File: VU028501.D
Acq: 06 Dec 2018 15:26

Tgt Ion: 129 Resp: 27945
Ion Ratio Lower Upper
129 100
127 75.6 39.1 117.3





#61

1,2-Dibromoethane

Concen: 19.600 ug/l

RT: 8.58 min Scan# 2305

Delta R.T. -0.00 min

Lab File: VU028501.D

Acq: 06 Dec 2018 15:26

Instrument :

MSVOA_U

ClientSampleId :

VU1206WBS01

Tot Ion:107 Resp: 30448

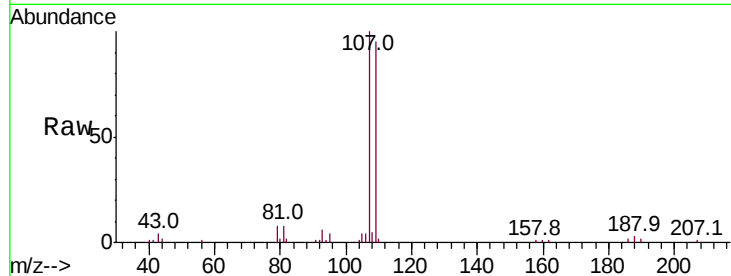
Ion Ratio Lower Upper

107 100

109 96.3 74.5 111.7

Manual Integrations
APPROVED

MMDadoda
12/7/2018 10:35:15 AM



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V

8.58

20000

15000

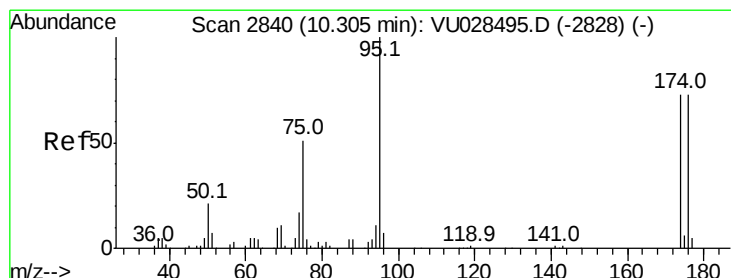
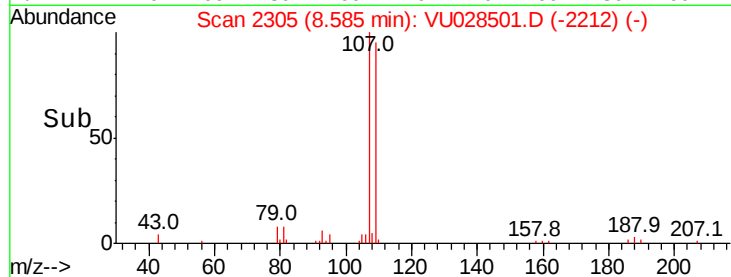
10000

5000

0

Time-->

8.55 8.60 8.65



#62

4-Bromofluorobenzene

Concen: 51.330 ug/l

RT: 10.30 min Scan# 2840

Delta R.T. -0.00 min

Lab File: VU028501.D

Acq: 06 Dec 2018 15:26

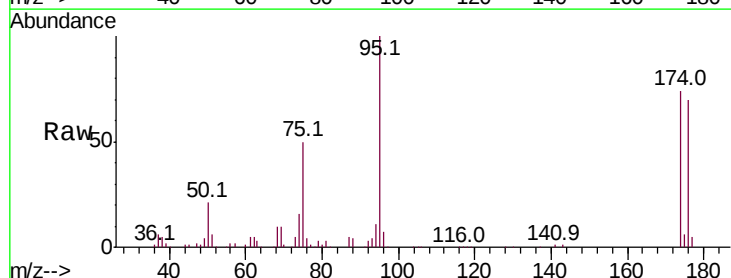
Tgt Ion: 95 Resp: 94362

Ion Ratio Lower Upper

95 100

174 75.2 0.0 150.4

176 72.0 0.0 145.2



Abundance Ion 94.90 (94.60 to 95.60): VU0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

80000

60000

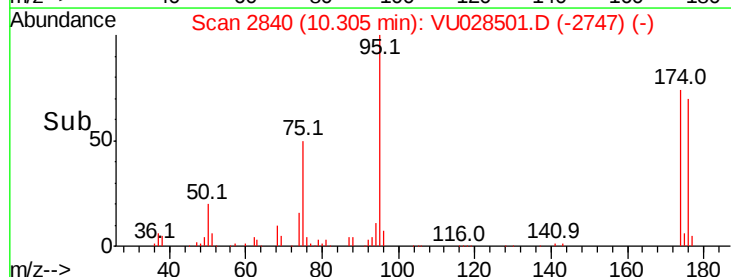
40000

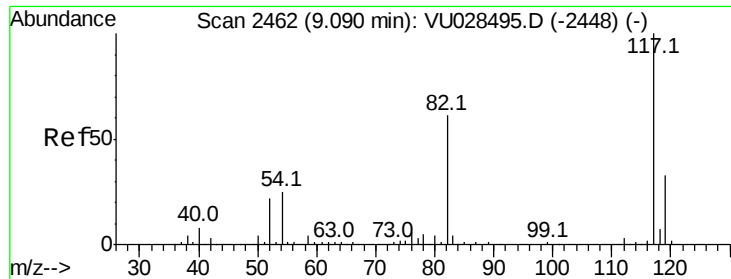
20000

0

Time-->

10.25 10.30 10.35 10.40





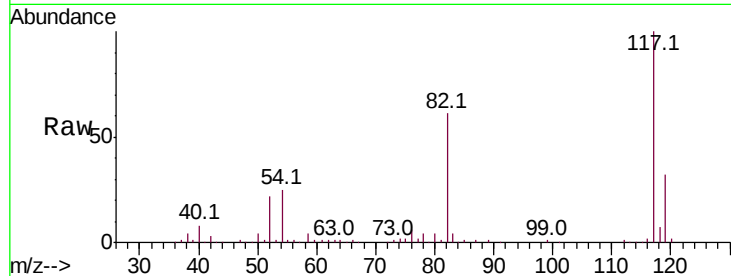
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2462
Delta R.T. -0.00 min
Lab File: VU028501.D
Acq: 06 Dec 2018 15:26

Instrument :
MSVOA_U
ClientSampleId :
VU1206WBS01

Tot Ion	Ratio	Lower	Upper
117	100		
82	61.0	48.9	73.3
119	32.0	26.2	39.4

Manual Integrations
APPROVED

MMDadoda
12/7/2018 10:35:15 AM

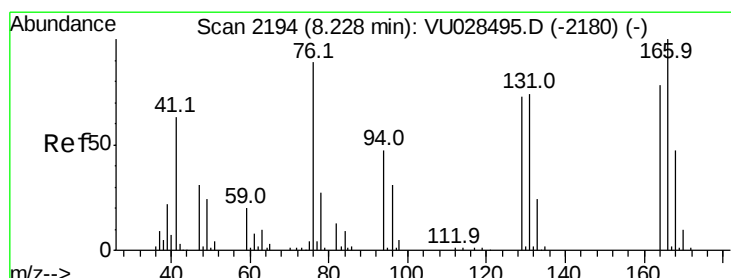
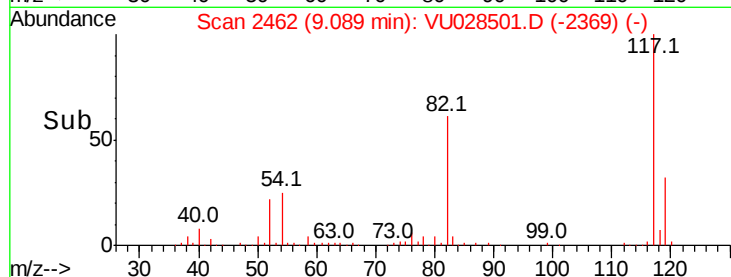
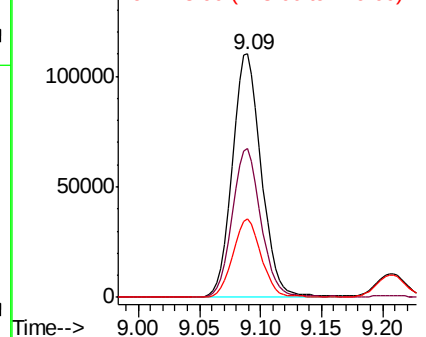


Abundance

Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#64
Tetrachloroethene
Concen: 19.181 ug/l
RT: 8.23 min Scan# 2194
Delta R.T. -0.00 min
Lab File: VU028501.D
Acq: 06 Dec 2018 15:26

Tgt Ion	Ratio	Lower	Upper
164	100		
166	128.7	101.9	152.9
129	99.1	74.9	112.3
131	92.0	75.4	113.0

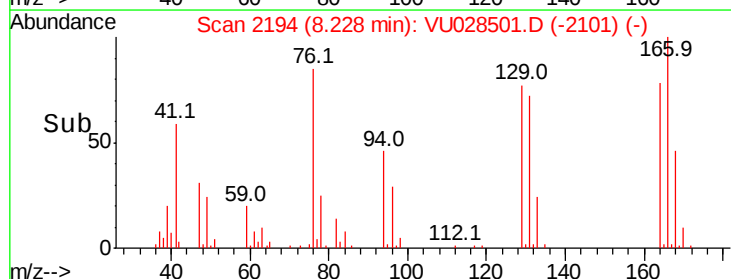
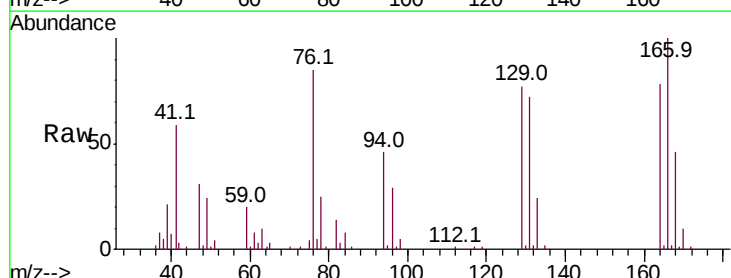
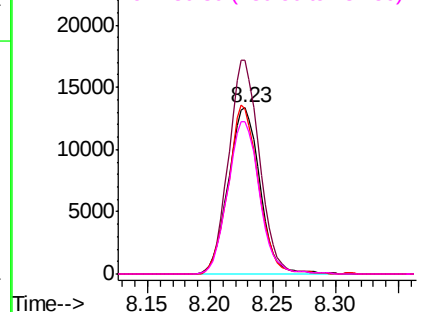
Abundance

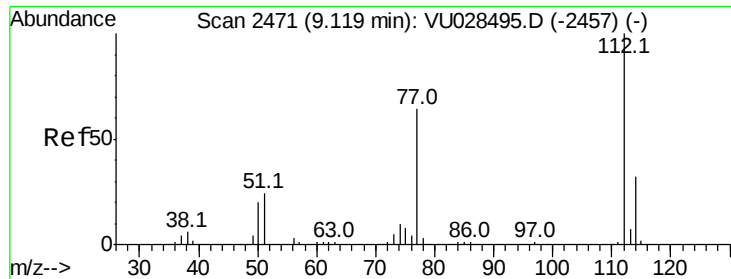
Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V





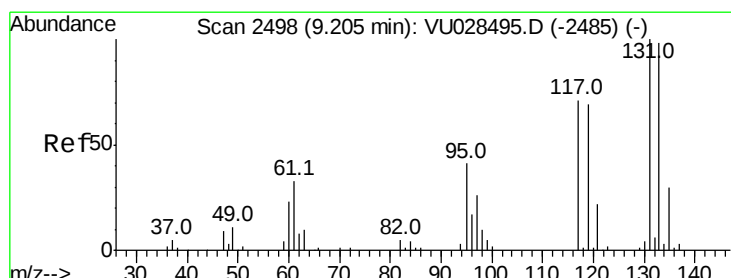
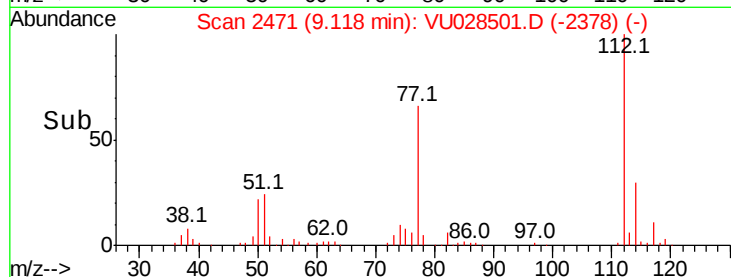
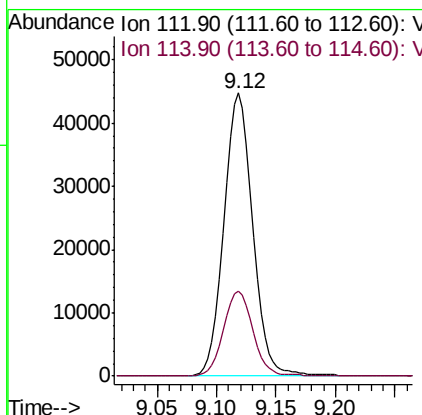
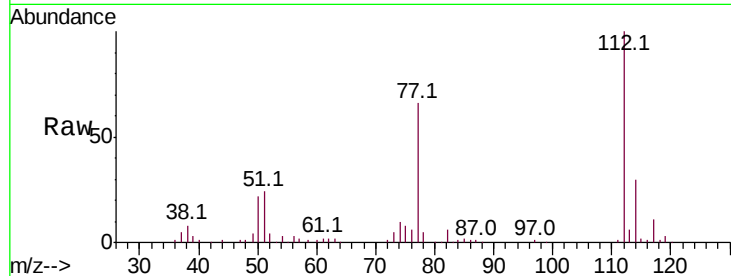
#65
Chlorobenzene
Concen: 19.278 ug/l
RT: 9.12 min Scan# 2471
Delta R.T. -0.00 min
Lab File: VU028501.D
Acq: 06 Dec 2018 15:26

Instrument :
MSVOA_U
ClientSampleId :
VU1206WBS01

Tot Ion:112 Resp: 75262
Ion Ratio Lower Upper
112 100
114 30.1 25.3 37.9

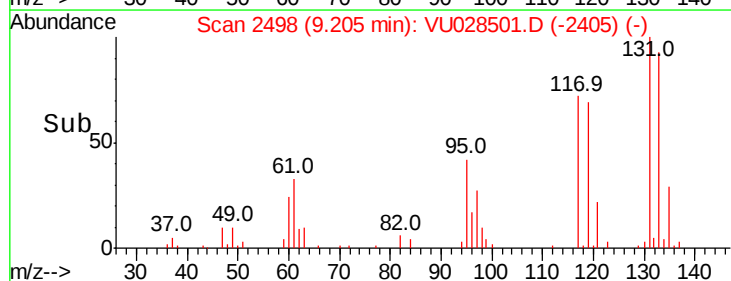
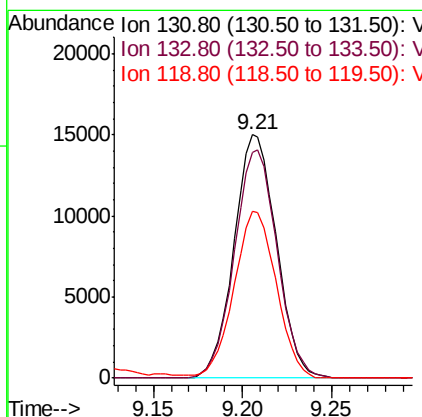
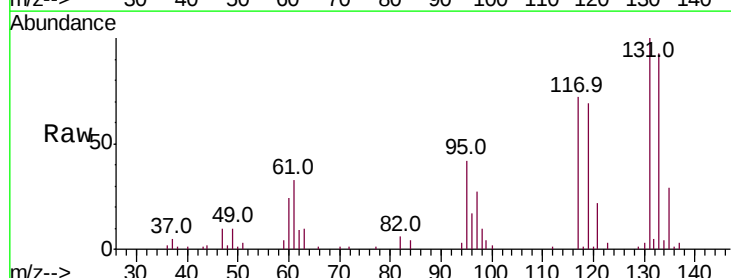
Manual Integrations
APPROVED

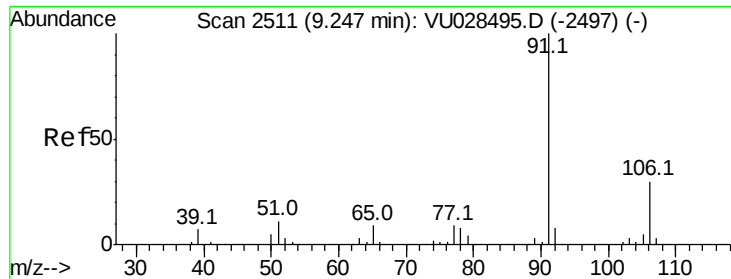
MMDadoda
12/7/2018 10:35:15 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 19.884 ug/l
RT: 9.21 min Scan# 2498
Delta R.T. -0.00 min
Lab File: VU028501.D
Acq: 06 Dec 2018 15:26

Tgt Ion:131 Resp: 24789
Ion Ratio Lower Upper
131 100
133 94.9 48.0 144.0
119 68.6 34.6 103.9





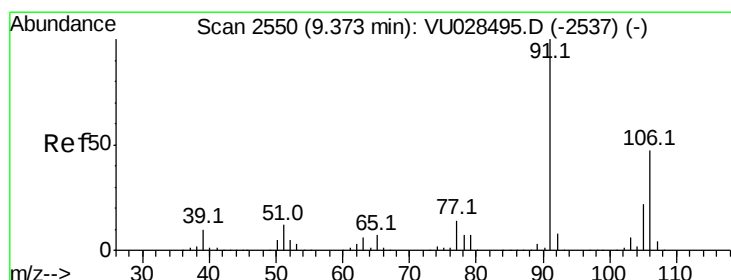
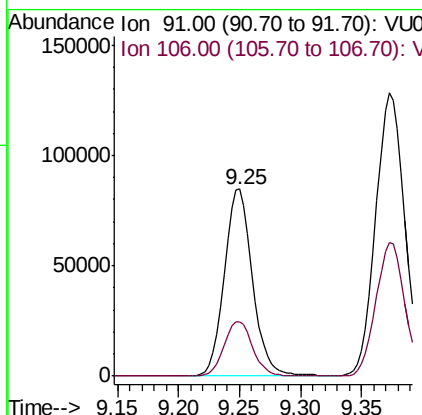
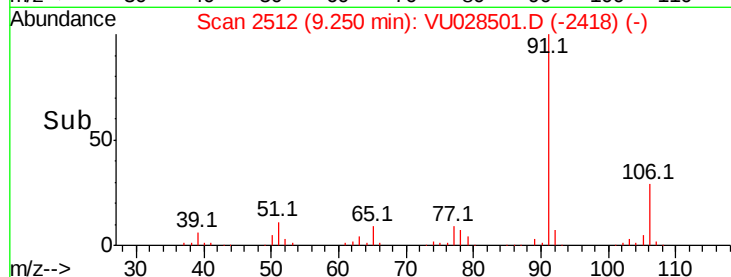
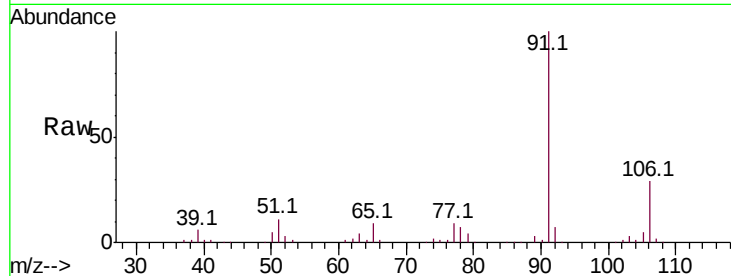
#67
Ethyl Benzene
Concen: 19.258 ug/l
RT: 9.25 min Scan# 2512
Delta R.T. 0.00 min
Lab File: VU028501.D
Acq: 06 Dec 2018 15:26

Instrument :
MSVOA_U
ClientSampleID :
VU1206WBS01

Tot Ion: 91 Resp: 138214
Ion Ratio Lower Upper
91 100
106 29.2 24.1 36.1

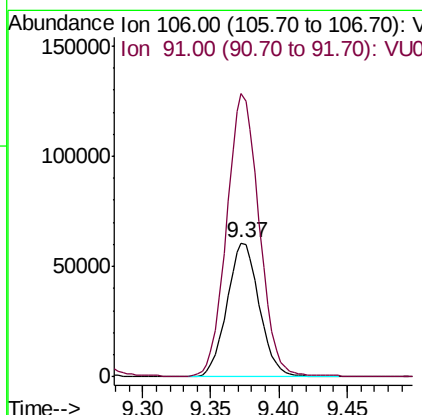
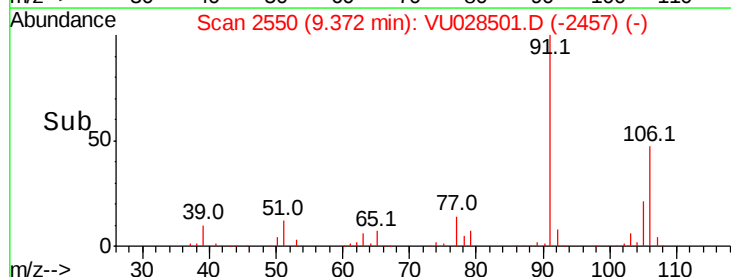
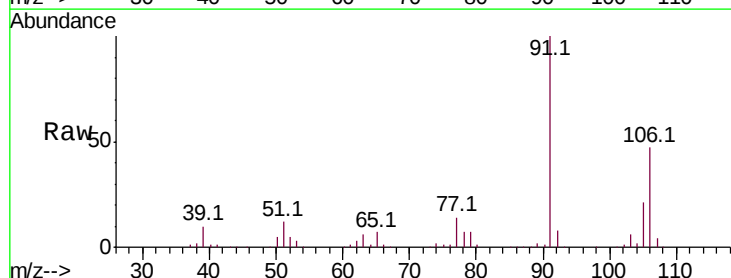
Manual Integrations
APPROVED

MMDadoda
12/7/2018 10:35:15 AM



#68
m/p-Xylenes
Concen: 38.328 ug/l
RT: 9.37 min Scan# 2550
Delta R.T. -0.00 min
Lab File: VU028501.D
Acq: 06 Dec 2018 15:26

Tgt Ion: 106 Resp: 100092
Ion Ratio Lower Upper
106 100
91 213.2 167.4 251.0





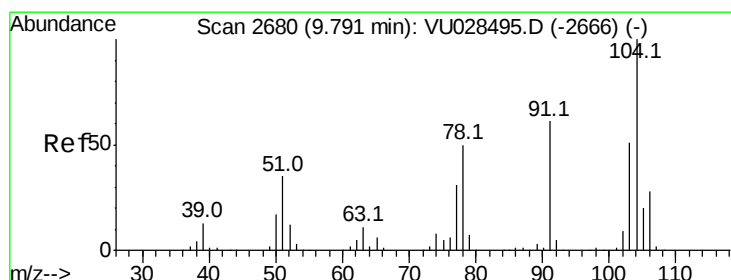
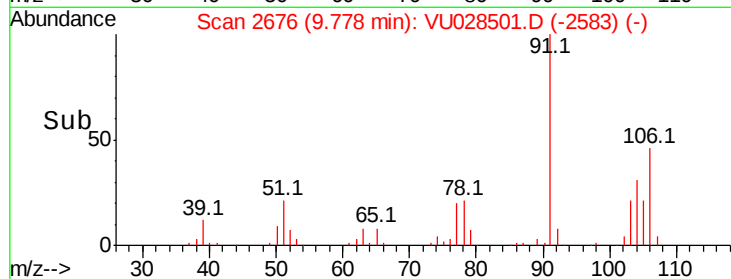
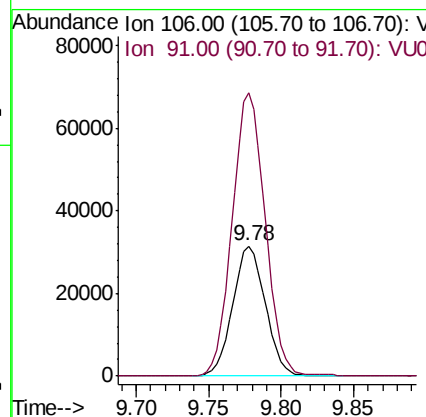
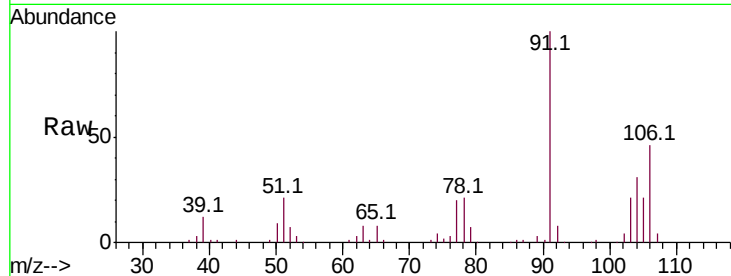
#69
o-Xylene
Concen: 19.395 ug/l
RT: 9.78 min Scan# 2676
Delta R.T. -0.00 min
Lab File: VU028501.D
Acq: 06 Dec 2018 15:26

Instrument :
MSVOA_U
ClientSampleId :
VU1206WBS01

Tot Ion:106 Resp: 49222
Ion Ratio Lower Upper
106 100
91 220.8 111.3 334.0

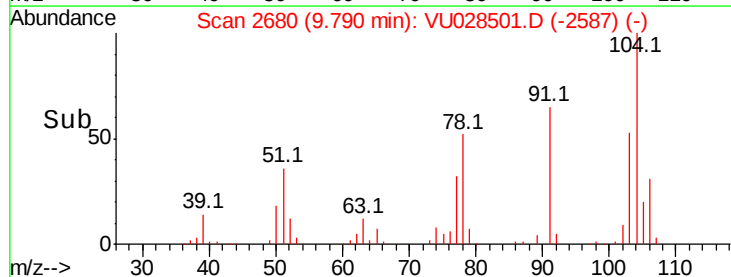
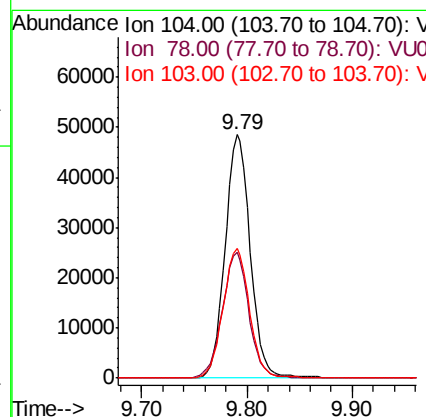
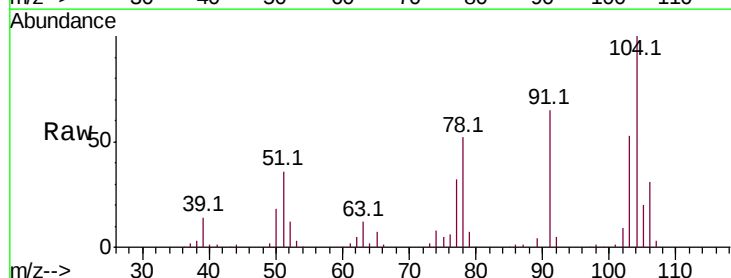
Manual Integrations
APPROVED

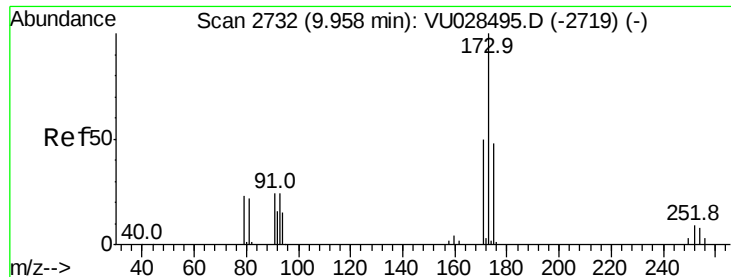
MMDadoda
12/7/2018 10:35:15 AM



#70
Styrene
Concen: 19.015 ug/l
RT: 9.79 min Scan# 2680
Delta R.T. -0.00 min
Lab File: VU028501.D
Acq: 06 Dec 2018 15:26

Tgt Ion:104 Resp: 79863
Ion Ratio Lower Upper
104 100
78 54.8 43.0 64.6
103 56.2 44.2 66.4





#71

Bromoform

Concen: 19.208 ug/l

RT: 9.96 min Scan# 2732

Delta R.T. -0.00 min

Lab File: VU028501.D

Acq: 06 Dec 2018 15:26

Instrument :

MSVOA_U

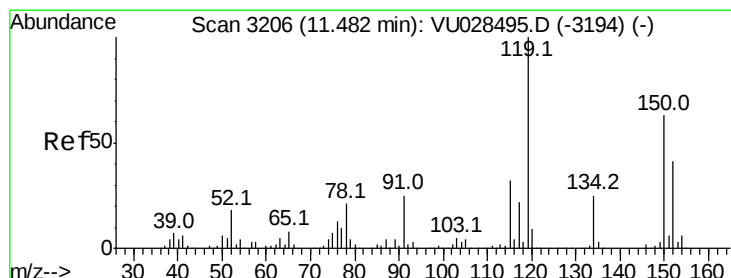
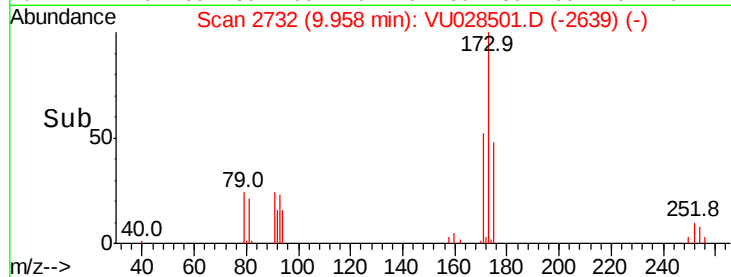
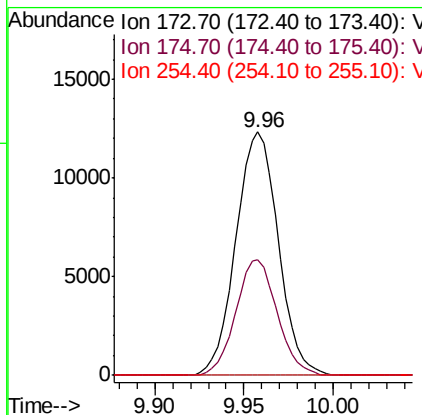
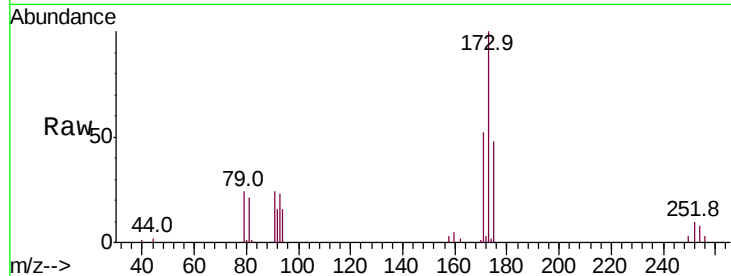
ClientSampleId :

VU1206WBS01

Tot Ion:	173	Resp:	20371
Ion Ratio	Lower	Upper	
173	100		
175	46.3	23.9	71.8
254	0.0	0.0	0.0

Manual Integrations
APPROVED

MMDadoda
12/7/2018 10:35:15 AM



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

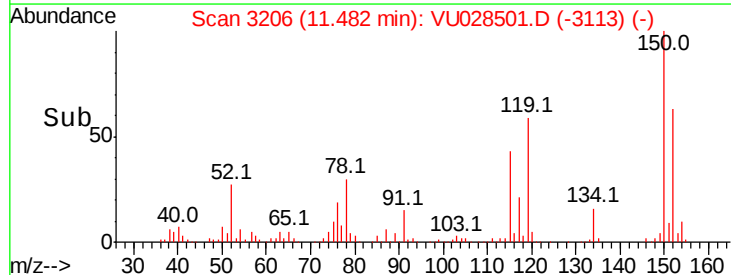
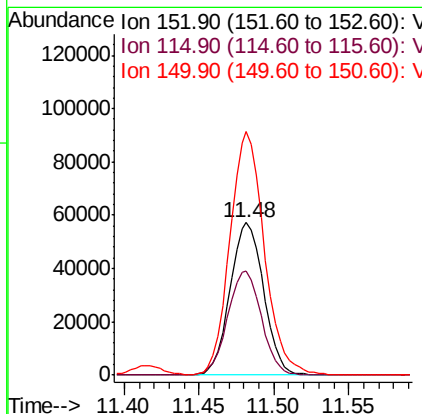
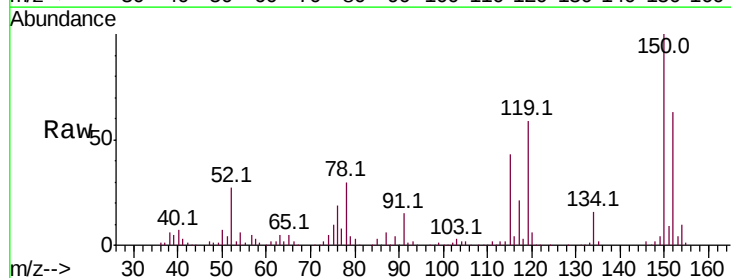
RT: 11.48 min Scan# 3206

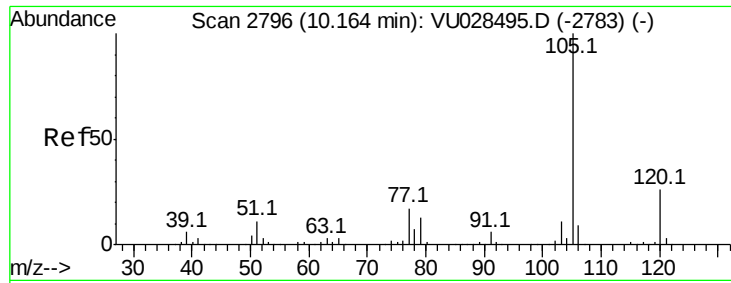
Delta R.T. -0.00 min

Lab File: VU028501.D

Acq: 06 Dec 2018 15:26

Tgt Ion:	152	Resp:	89412
Ion Ratio	Lower	Upper	
152	100		
115	68.6	42.7	128.1
150	163.7	0.0	346.0





#73

Isopropylbenzene

Concen: 19.011 ug/l

RT: 10.16 min Scan# 2796

Delta R.T. -0.00 min

Lab File: VU028501.D

Acq: 06 Dec 2018 15:26

Instrument :

MSVOA_U

ClientSampleId :

VU1206WBS01

Tot Ion: 105 Resp: 130431

Ion Ratio Lower Upper

105 100

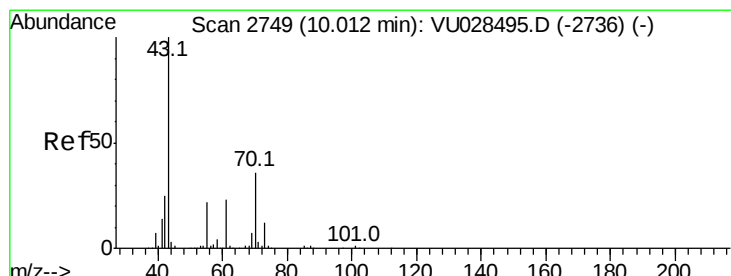
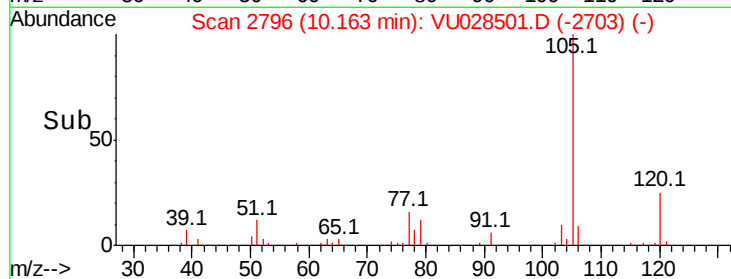
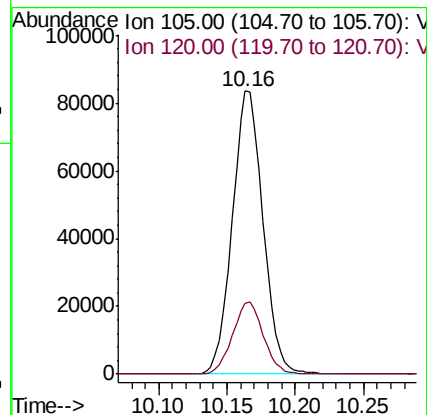
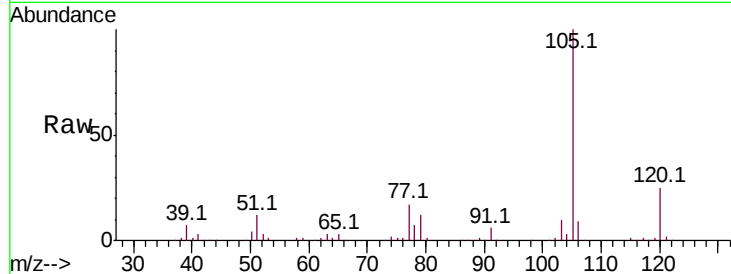
120 25.6 12.9 38.6

Manual Integrations

APPROVED

MMDadoda

12/7/2018 10:35:15 AM



#74

N-ethyl acetate

Concen: 18.580 ug/l

RT: 10.01 min Scan# 2749

Delta R.T. -0.00 min

Lab File: VU028501.D

Acq: 06 Dec 2018 15:26

Tgt Ion: 43 Resp: 73532

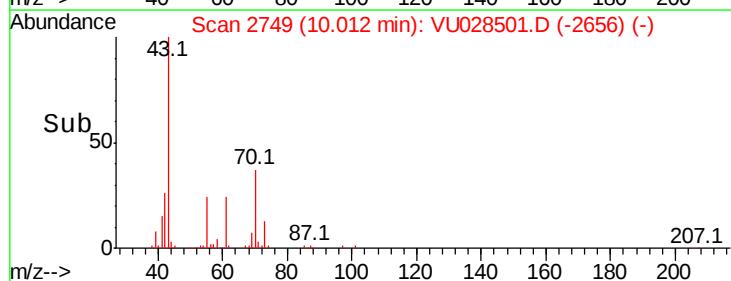
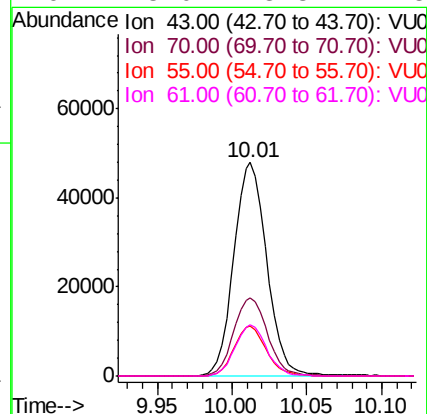
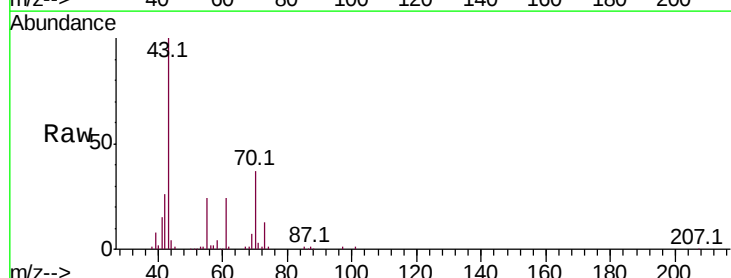
Ion Ratio Lower Upper

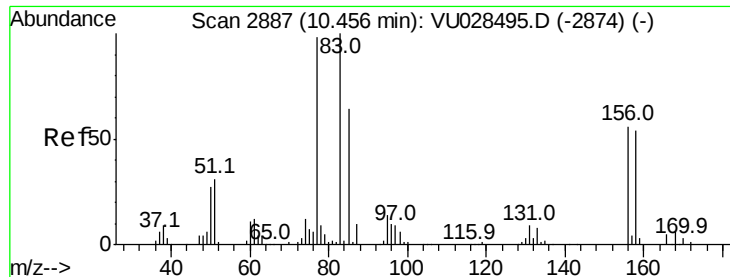
43 100

70 37.5 29.3 43.9

55 23.0 18.0 27.0

61 23.0 18.3 27.5





#75

1,1,2,2-Tetrachloroethane

Concen: 19.515 ug/l

RT: 10.46 min Scan# 2887

Delta R.T. -0.00 min

Lab File: VU028501.D

Acq: 06 Dec 2018 15:26

Instrument :

MSVOA_U

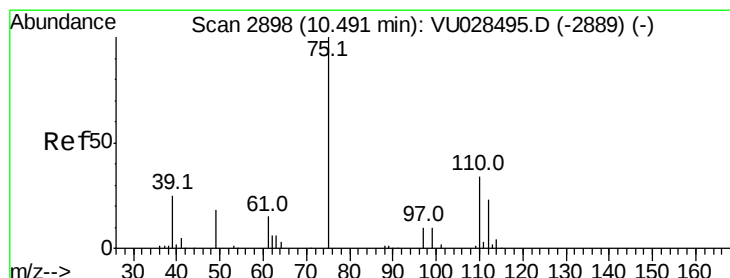
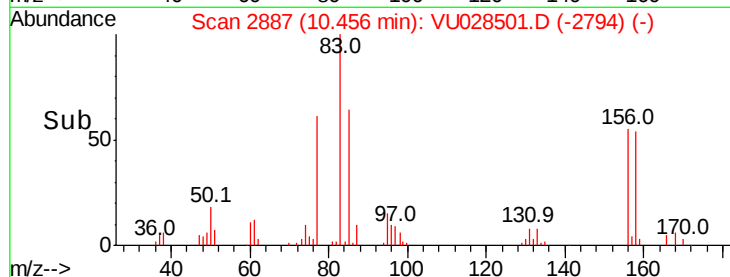
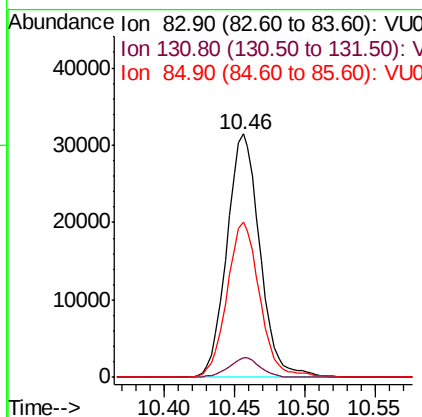
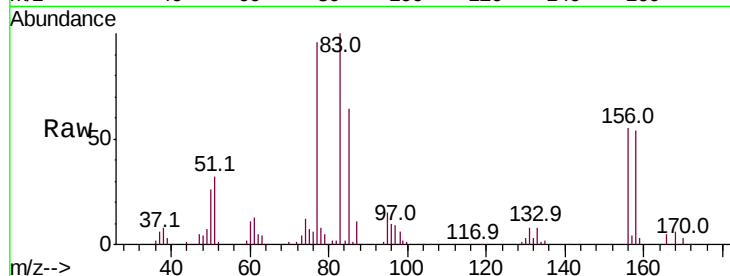
ClientSampleId :

VU1206WBS01

Tot Ion:	83	Resp:	51434
Ion Ratio	Lower	Upper	
83	100		
131	7.7	4.2	12.4
85	63.4	31.8	95.4

Manual Integrations
APPROVED

MMDadoda
12/7/2018 10:35:15 AM



#76

1,2,3-Trichloropropane

Concen: 18.091 ug/l m

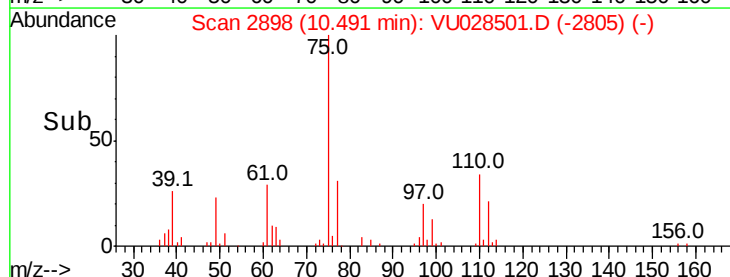
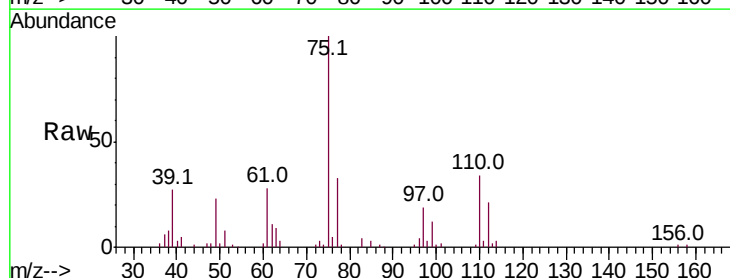
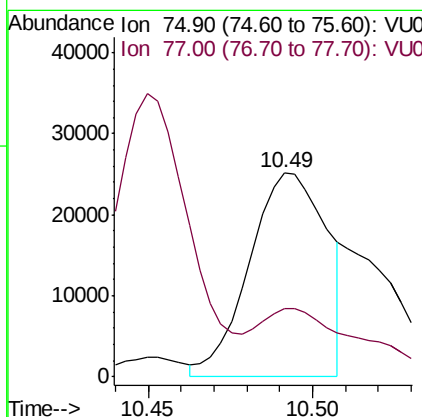
RT: 10.49 min Scan# 2898

Delta R.T. -0.00 min

Lab File: VU028501.D

Acq: 06 Dec 2018 15:26

Tgt Ion:	75	Resp:	41305
Ion Ratio	Lower	Upper	
75	100		
77	45.0	20.8	62.4





#77

Bromobenzene

Concen: 19.160 ug/l

RT: 10.45 min Scan# 2885

Delta R.T. -0.00 min

Lab File: VU028501.D

Acq: 06 Dec 2018 15:26

Instrument :

MSVOA_U

ClientSampleId :

VU1206WBS01

Tot Ion:156 Resp: 30744

Ion Ratio Lower Upper

156 100

77 184.5 92.4 277.2

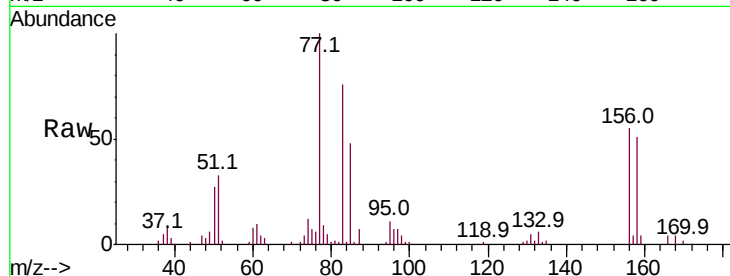
158 96.2 48.4 145.3

Manual Integrations

APPROVED

MMDadoda

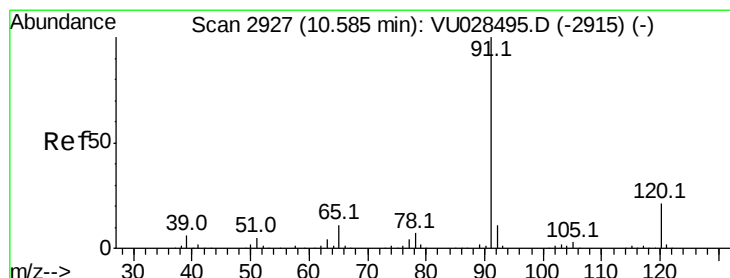
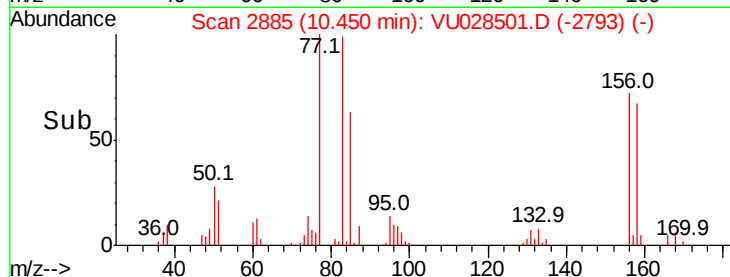
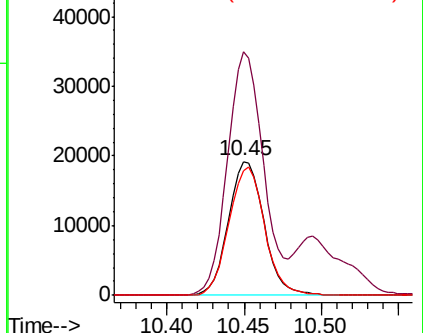
12/7/2018 10:35:15 AM



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VU0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 18.744 ug/l

RT: 10.58 min Scan# 2927

Delta R.T. -0.00 min

Lab File: VU028501.D

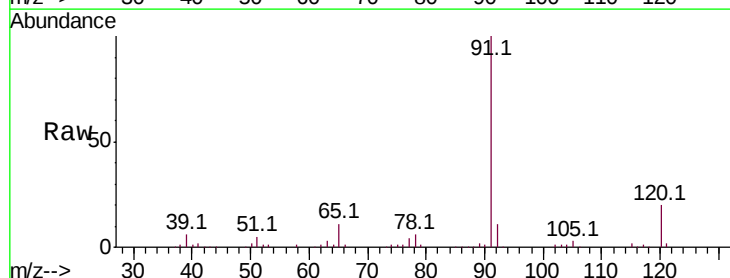
Acq: 06 Dec 2018 15:26

Tgt Ion: 91 Resp: 159796

Ion Ratio Lower Upper

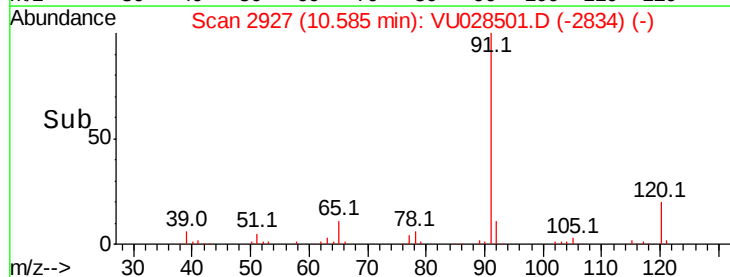
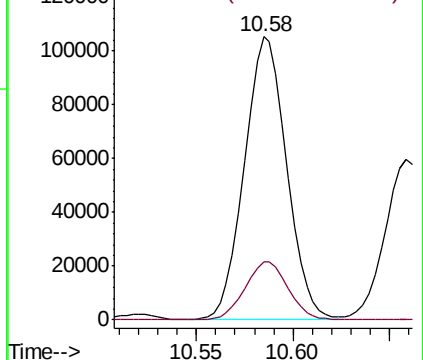
91 100

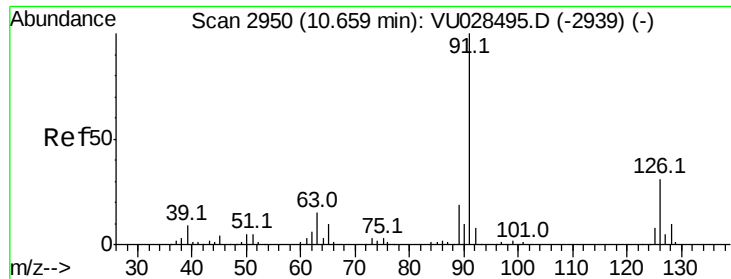
120 21.0 10.6 31.8



Abundance Ion 91.00 (90.70 to 91.70): VU0

Ion 120.00 (119.70 to 120.70): V





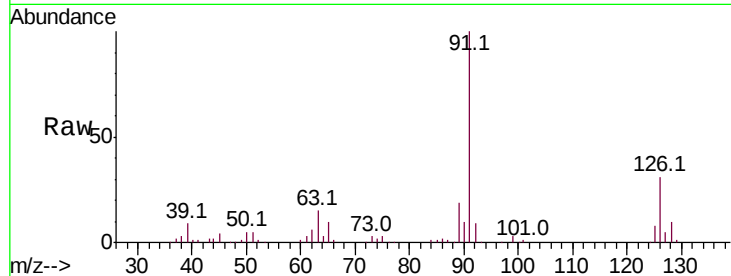
#79
2-Chlorotoluene
Concen: 19.030 ug/l
RT: 10.66 min Scan# 2950
Delta R.T. -0.00 min
Lab File: VU028501.D
Acq: 06 Dec 2018 15:26

Instrument :
MSVOA_U
ClientSampleId :
VU1206WBS01

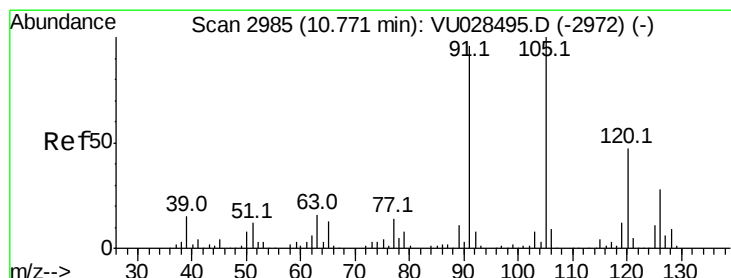
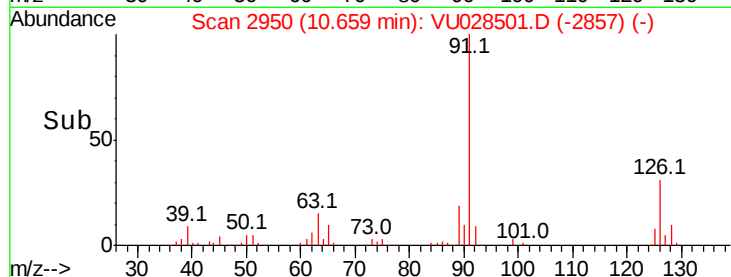
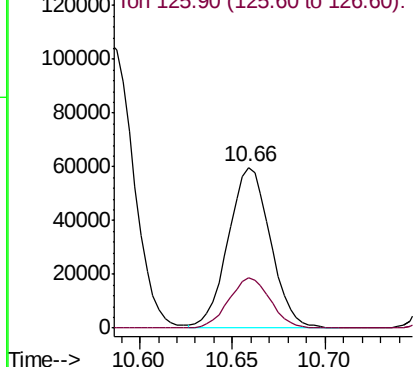
Tot Ion: 91 Resp: 93451
Ion Ratio Lower Upper
91 100
126 31.1 15.6 46.8

Manual Integrations
APPROVED

MMDadoda
12/7/2018 10:35:15 AM

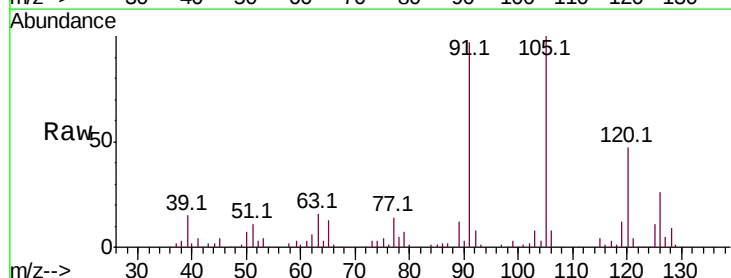


Abundance Ion 91.00 (90.70 to 91.70): VU028495.D (-2939) (-)
Ion 125.90 (125.60 to 126.60): VU028495.D (-2939) (-)

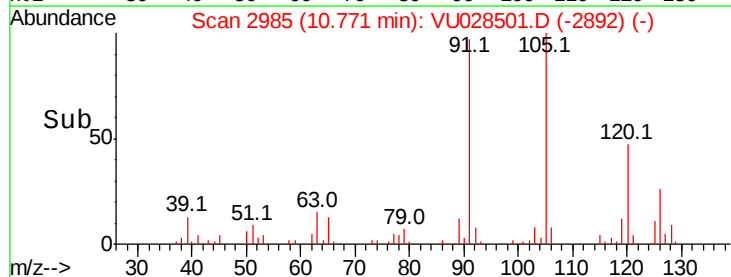
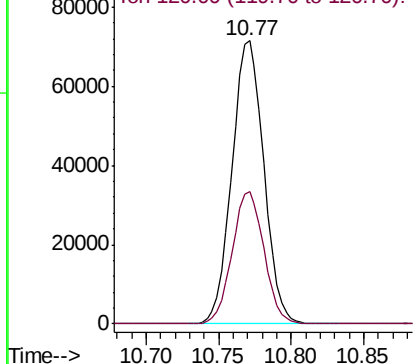


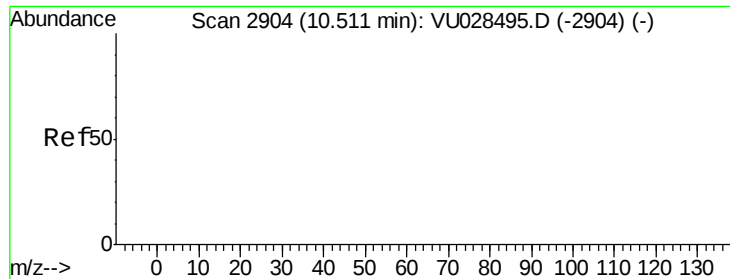
#80
1,3,5-Trimethylbenzene
Concen: 19.198 ug/l
RT: 10.77 min Scan# 2985
Delta R.T. -0.00 min
Lab File: VU028501.D
Acq: 06 Dec 2018 15:26

Tgt Ion:105 Resp: 109030
Ion Ratio Lower Upper
105 100
120 46.6 23.7 71.1



Abundance Ion 105.00 (104.70 to 105.70): VU028495.D (-2972) (-)
Ion 120.00 (119.70 to 120.70): VU028495.D (-2972) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 20.717 ug/l m

RT: 10.51 min Scan# 2903

Delta R.T. -0.00 min

Lab File: VU028501.D

Acq: 06 Dec 2018 15:26

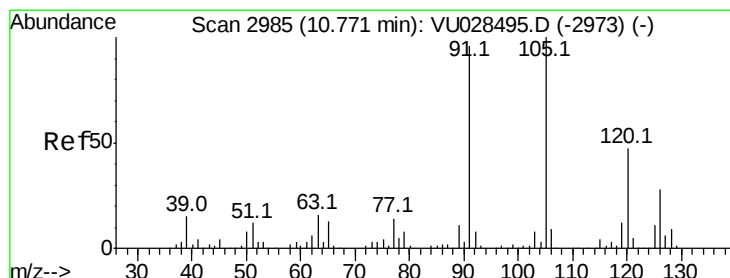
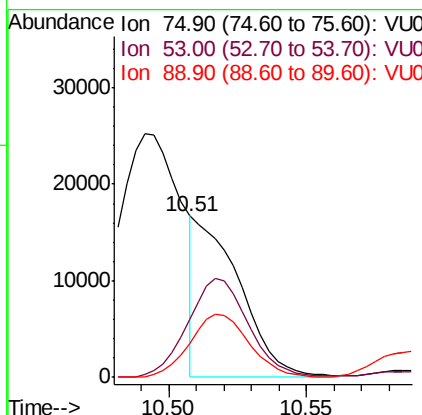
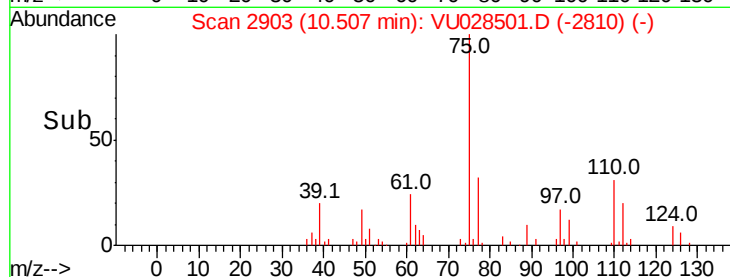
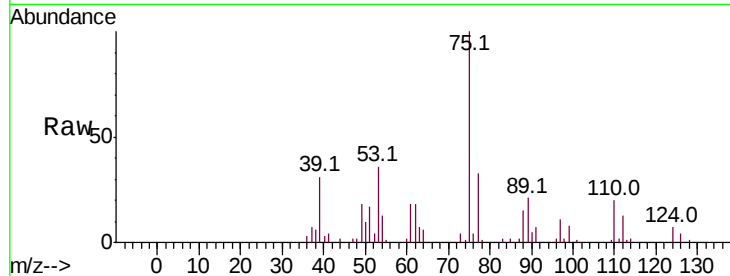
Instrument :
MSVOA_U

ClientSampleId :
VU1206WBS01

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
12/7/2018 10:35:15 AM



#82

4-Chlorotoluene

Concen: 18.349 ug/l

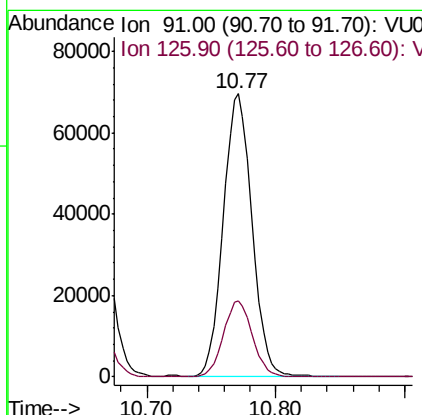
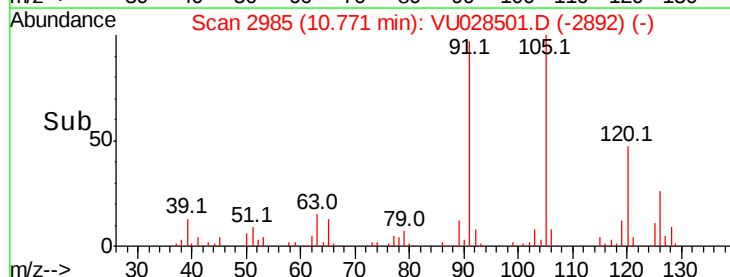
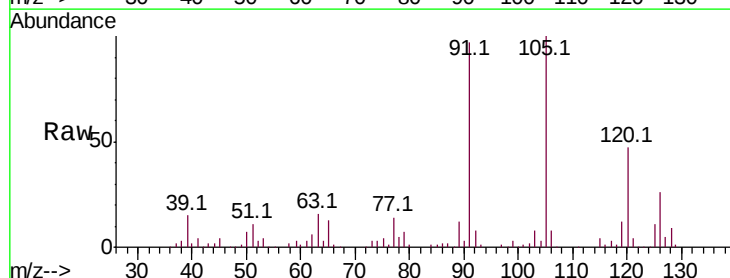
RT: 10.77 min Scan# 2985

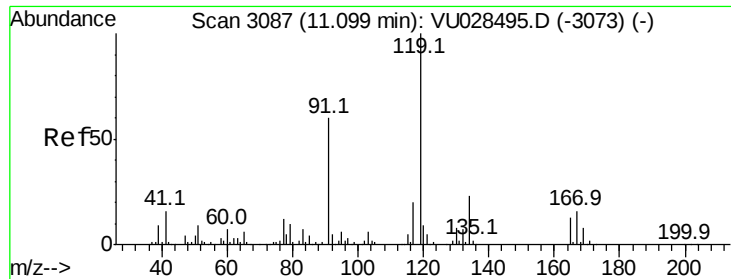
Delta R.T. -0.00 min

Lab File: VU028501.D

Acq: 06 Dec 2018 15:26

Tgt Ion	Ratio	Lower	Upper
91	100		
126	27.2	14.1	42.3





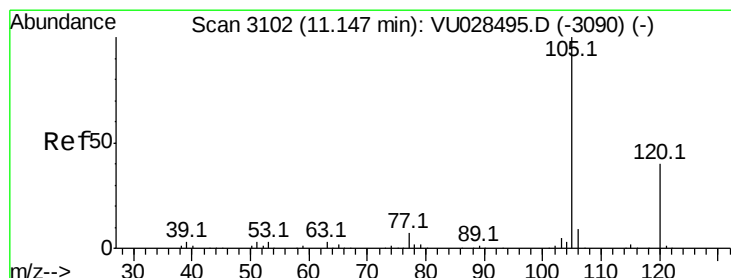
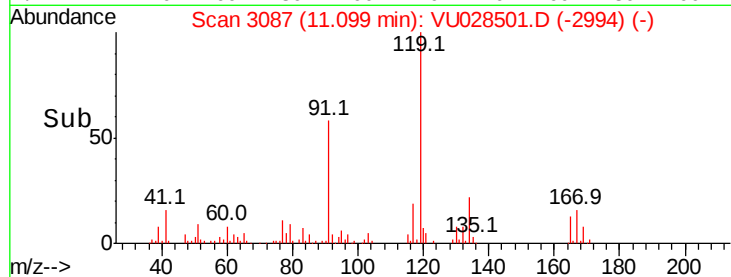
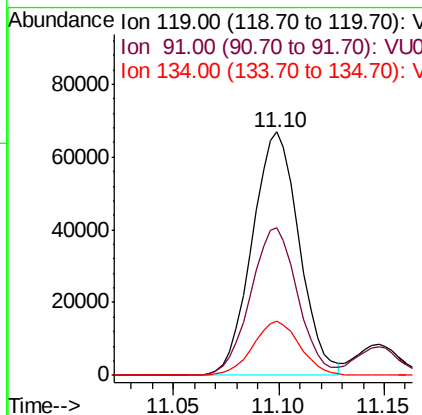
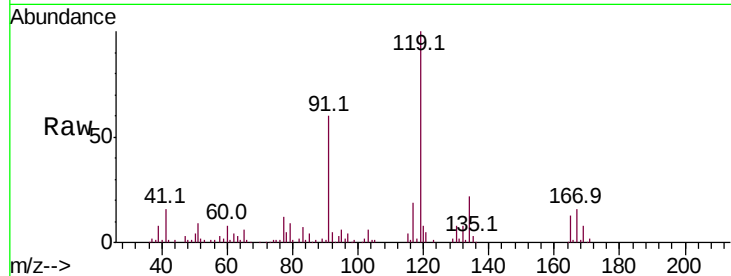
#83
tert-Butylbenzene
Concen: 18.984 ug/l
RT: 11.10 min Scan# 3087
Delta R.T. -0.00 min
Lab File: VU028501.D
Acq: 06 Dec 2018 15:26

Instrument :
MSVOA_U
ClientSampleId :
VU1206WBS01

Tot Ion	Ratio	Resp	Lower	Upper
119	100	103916		
91	60.9		30.3	91.0
134	22.1		11.2	33.5

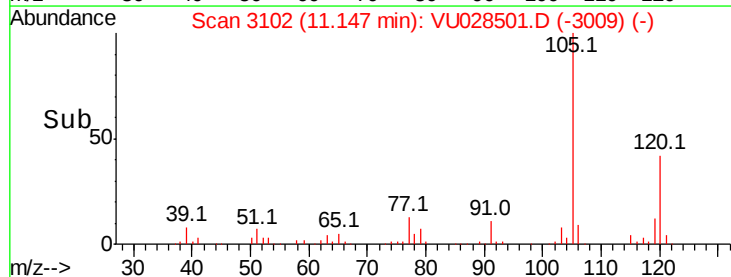
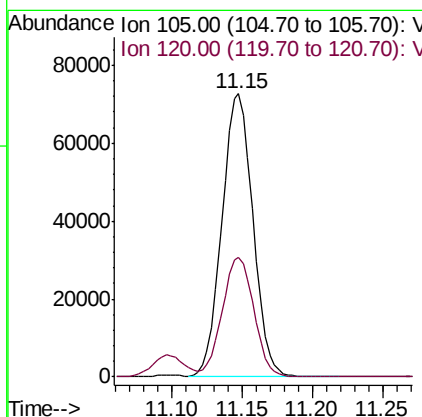
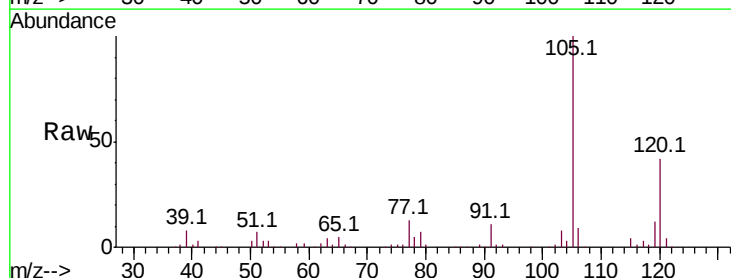
Manual Integrations
APPROVED

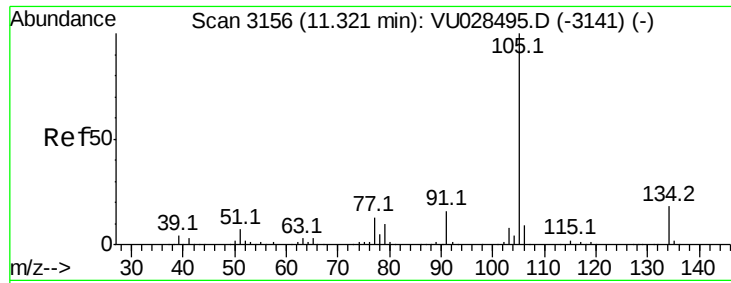
MMDadoda
12/7/2018 10:35:15 AM



#84
1,2,4-Trimethylbenzene
Concen: 19.044 ug/l
RT: 11.15 min Scan# 3102
Delta R.T. -0.00 min
Lab File: VU028501.D
Acq: 06 Dec 2018 15:26

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	111462		
120	43.0		21.8	65.4





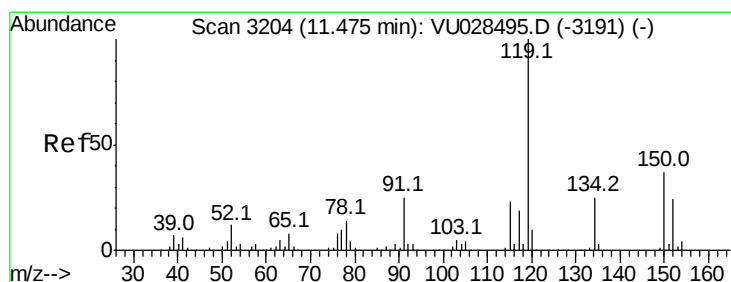
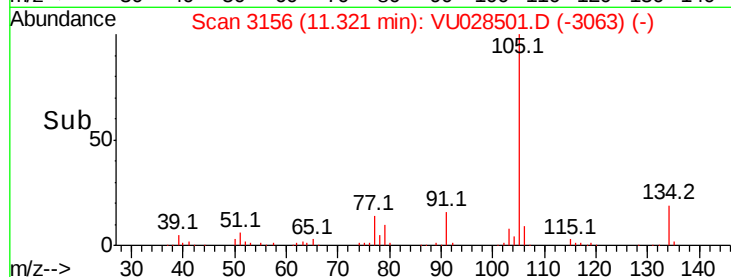
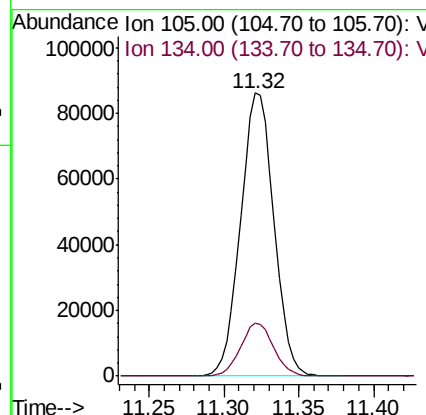
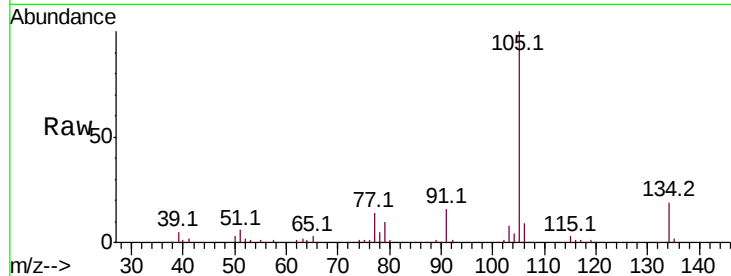
#85
 sec-Butylbenzene
 Concen: 18.976 ug/l
 RT: 11.32 min Scan# 3156
 Delta R.T. -0.00 min
 Lab File: VU028501.D
 Acq: 06 Dec 2018 15:26

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1206WBS01

Tot Ion	Ratio	Lower	Upper
105	100		
134	18.5	9.2	27.6

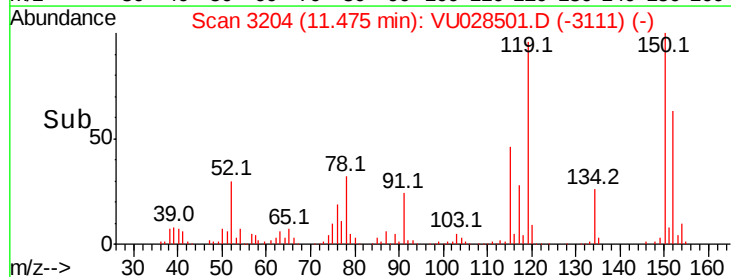
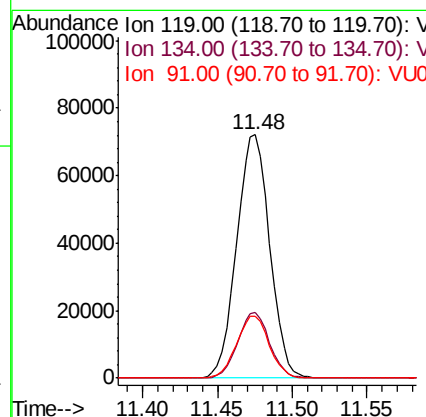
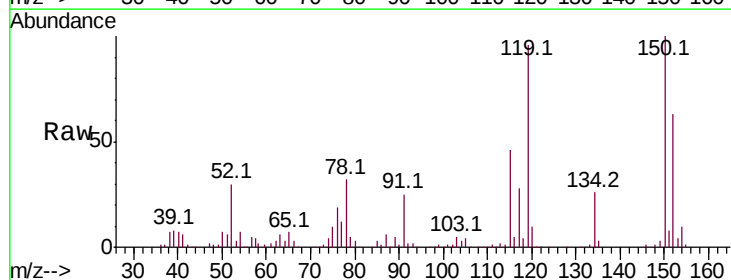
Manual Integrations
 APPROVED

MMDadoda
 12/7/2018 10:35:15 AM



#86
 p-Isopropyltoluene
 Concen: 18.554 ug/l
 RT: 11.48 min Scan# 3204
 Delta R.T. -0.00 min
 Lab File: VU028501.D
 Acq: 06 Dec 2018 15:26

Tgt Ion	Ratio	Lower	Upper
119	100		
134	26.0	12.7	38.1
91	25.1	12.6	37.6





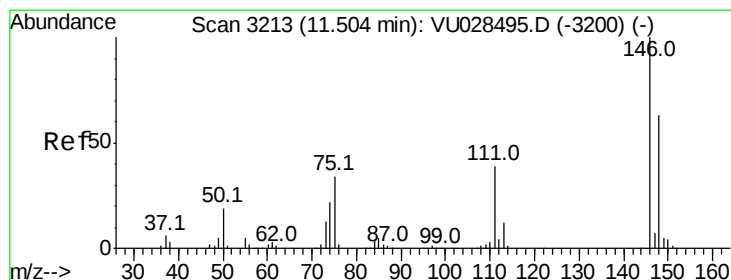
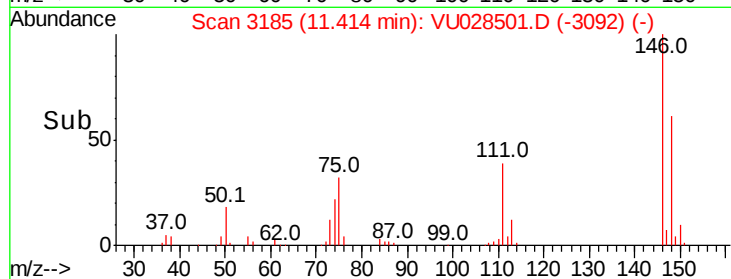
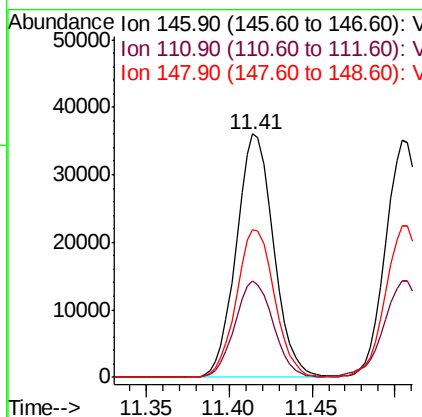
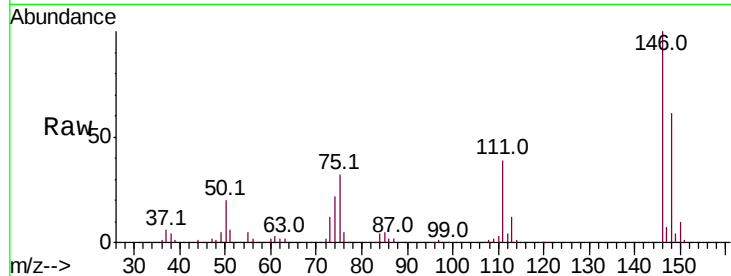
#87
 1,3-Dichlorobenzene
 Concen: 18.618 ug/l
 RT: 11.41 min Scan# 3185
 Delta R.T. -0.00 min
 Lab File: VU028501.D
 Acq: 06 Dec 2018 15:26

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1206WBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	40.6	20.7	62.1
148	61.9	31.9	95.7

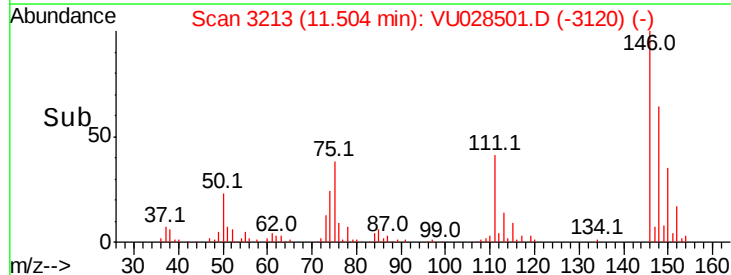
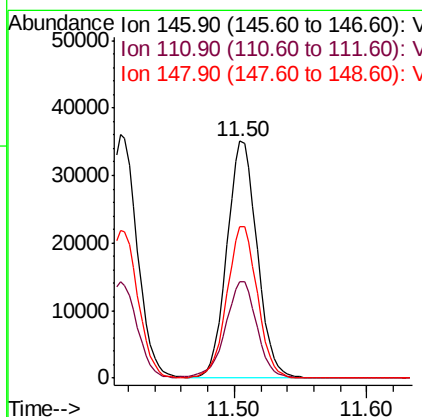
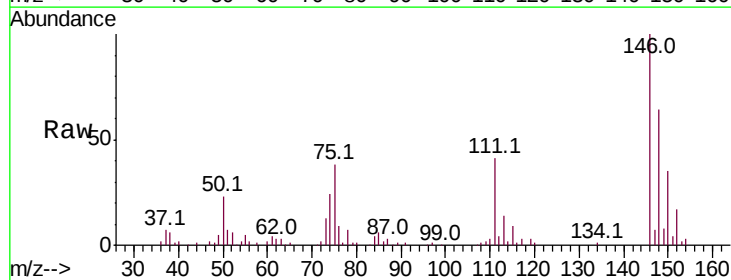
Manual Integrations
 APPROVED

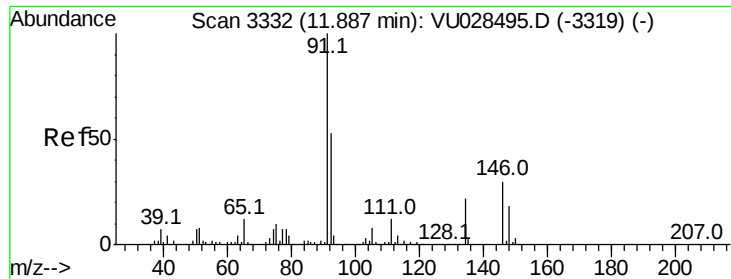
MMDadoda
 12/7/2018 10:35:15 AM



#88
 1,4-Dichlorobenzene
 Concen: 17.734 ug/l
 RT: 11.50 min Scan# 3213
 Delta R.T. -0.00 min
 Lab File: VU028501.D
 Acq: 06 Dec 2018 15:26

Tgt Ion	Ratio	Lower	Upper
146	100		
111	42.6	20.2	60.5
148	64.4	31.6	95.0





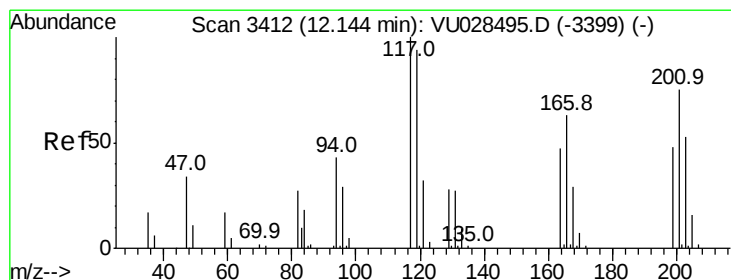
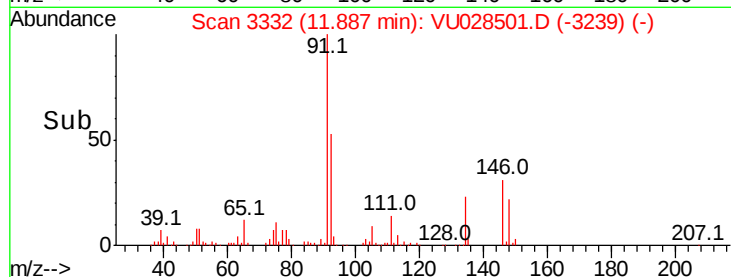
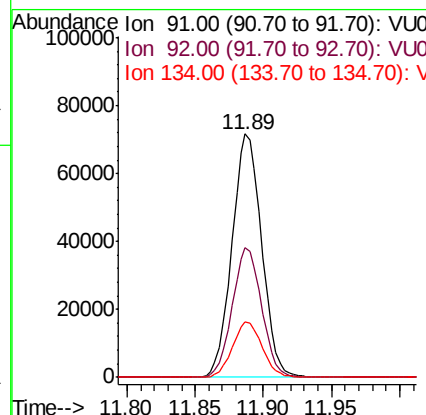
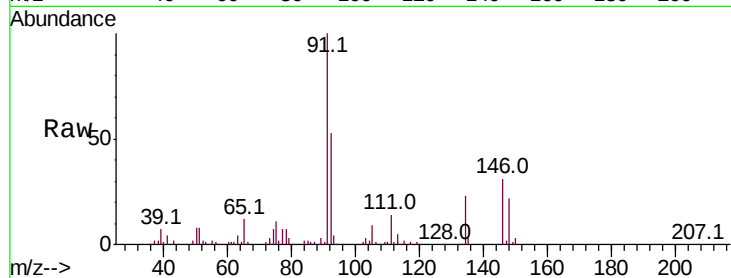
#89
n-Butylbenzene
Concen: 17.910 ug/l
RT: 11.89 min Scan# 3332
Delta R.T. -0.00 min
Lab File: VU028501.D
Acq: 06 Dec 2018 15:26

Instrument :
MSVOA_U
ClientSampleId :
VU1206WBS01

Tot Ion	Ratio	Lower	Upper
91	100		
92	52.6	26.3	78.9
134	22.7	11.3	33.8

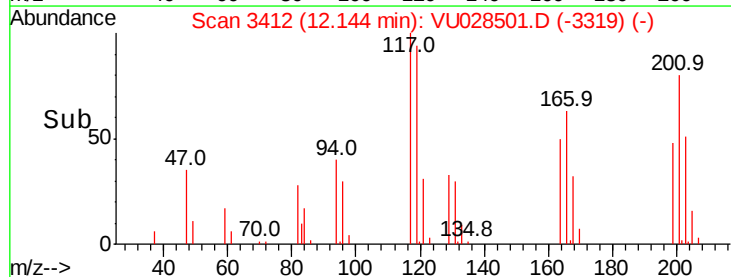
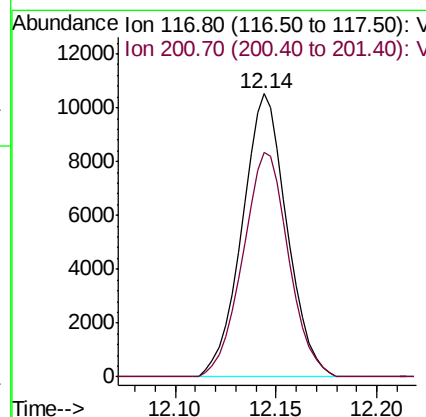
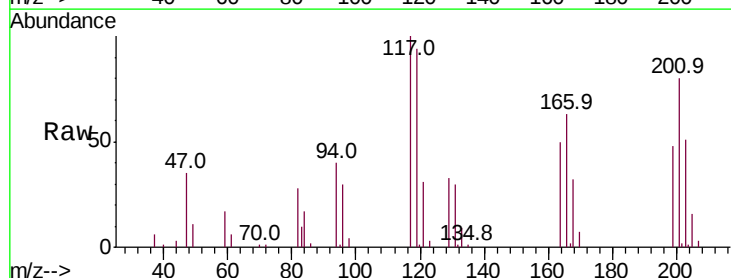
Manual Integrations
APPROVED

MMDadoda
12/7/2018 10:35:15 AM



#90
Hexachloroethane
Concen: 18.094 ug/l
RT: 12.14 min Scan# 3412
Delta R.T. -0.00 min
Lab File: VU028501.D
Acq: 06 Dec 2018 15:26

Tgt Ion	Ratio	Lower	Upper
117	100		
201	81.0	38.1	114.5





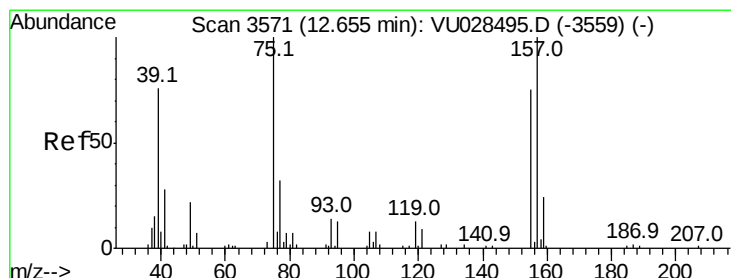
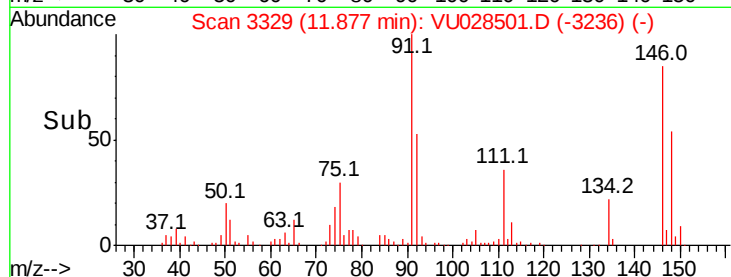
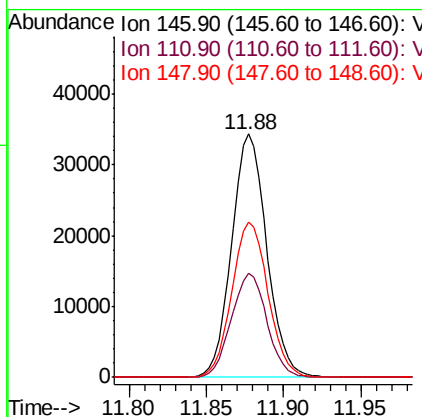
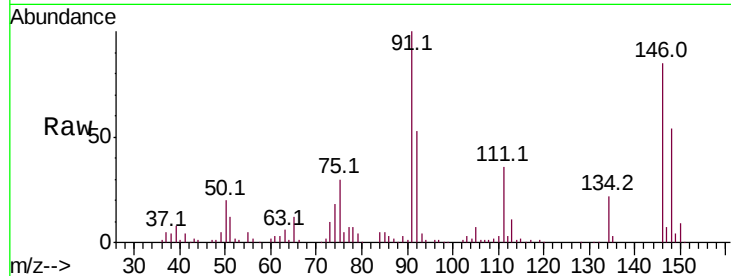
#91
 1,2-Dichlorobenzene
 Concen: 17.792 ug/l
 RT: 11.88 min Scan# 3329
 Delta R.T. -0.00 min
 Lab File: VU028501.D
 Acq: 06 Dec 2018 15:26

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1206WBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	43.3	21.1	63.4
148	65.7	31.4	94.2

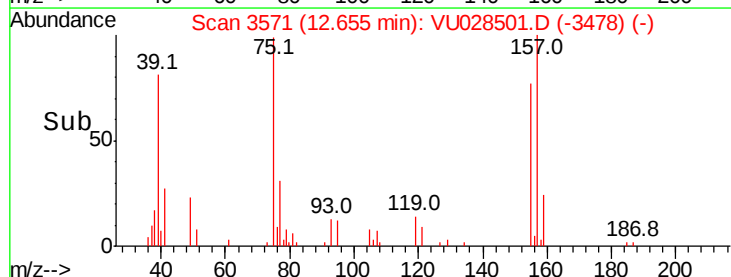
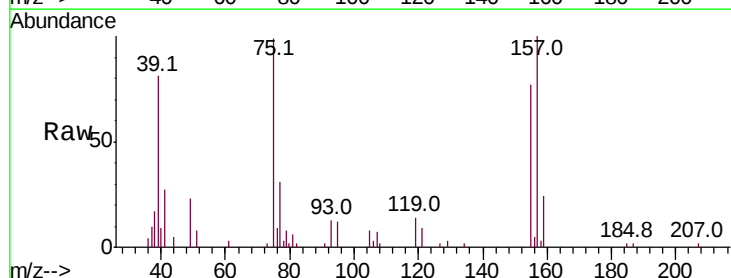
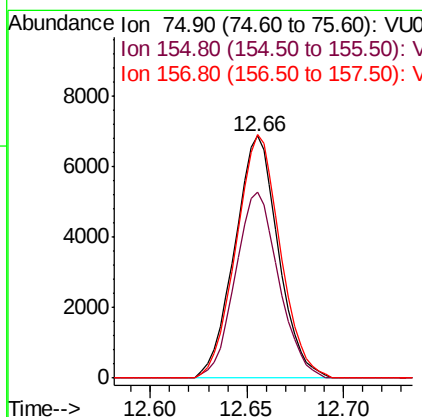
Manual Integrations
 APPROVED

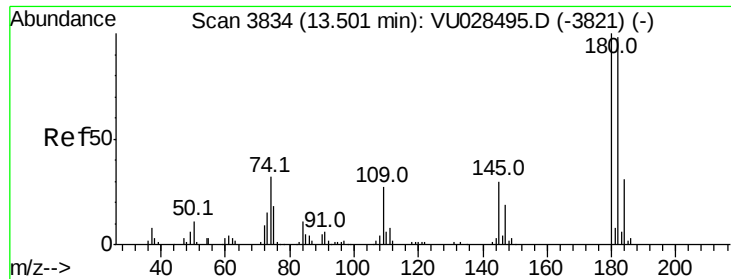
MMDadoda
 12/7/2018 10:35:15 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 18.842 ug/l
 RT: 12.66 min Scan# 3571
 Delta R.T. -0.00 min
 Lab File: VU028501.D
 Acq: 06 Dec 2018 15:26

Tgt Ion	Ratio	Lower	Upper
75	100		
155	76.5	38.1	114.5
157	101.9	48.7	146.1





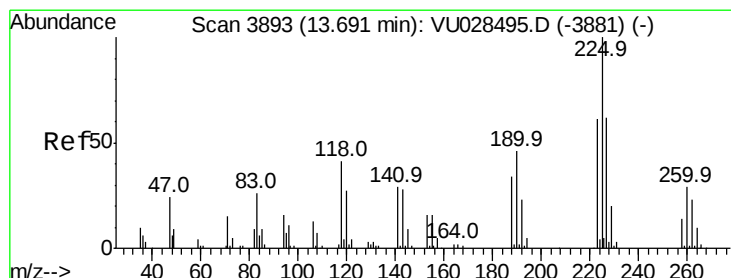
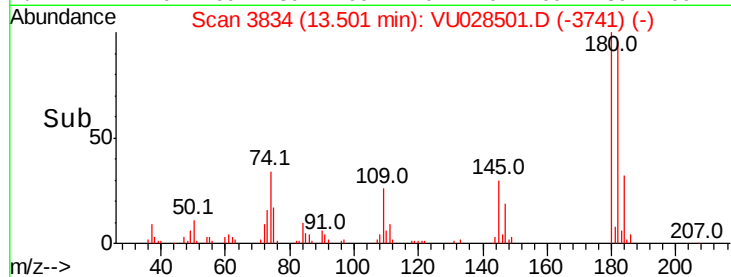
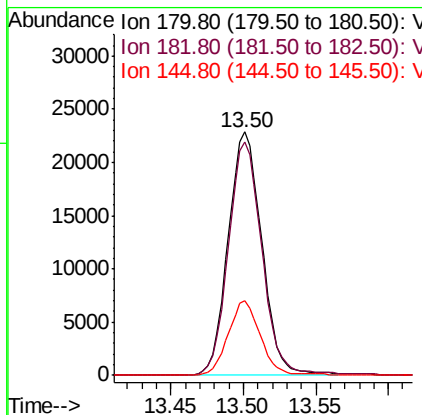
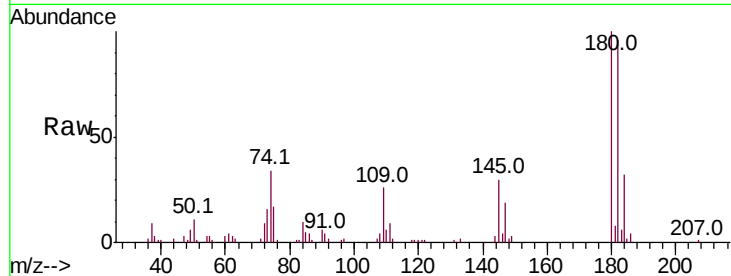
#93
 1,2,4-Trichlorobenzene
 Concen: 18.262 ug/l
 RT: 13.50 min Scan# 3834
 Delta R.T. -0.00 min
 Lab File: VU028501.D
 Acq: 06 Dec 2018 15:26

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1206WBS01

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.5	47.9	143.8
145	29.2	15.0	45.1

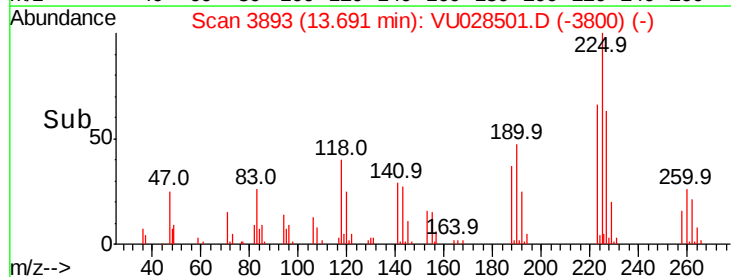
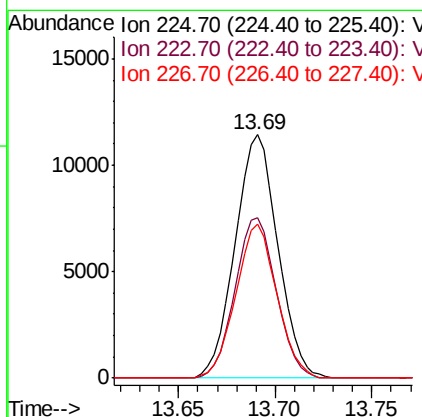
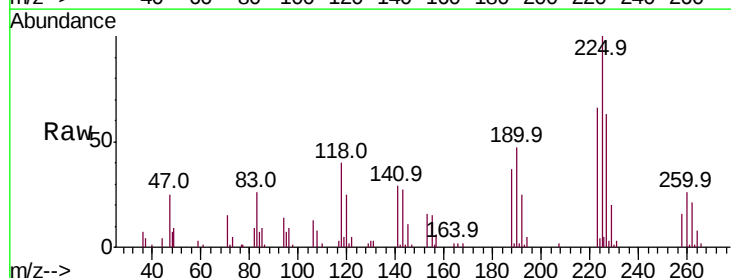
Manual Integrations
 APPROVED

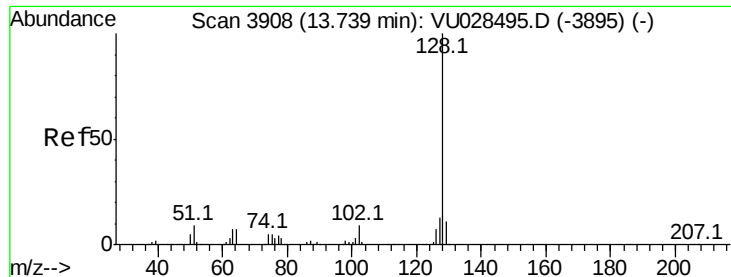
MMDadoda
 12/7/2018 10:35:15 AM



#94
 Hexachlorobutadiene
 Concen: 17.713 ug/l
 RT: 13.69 min Scan# 3893
 Delta R.T. -0.00 min
 Lab File: VU028501.D
 Acq: 06 Dec 2018 15:26

Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.4	30.4	91.2
227	60.6	30.7	92.1





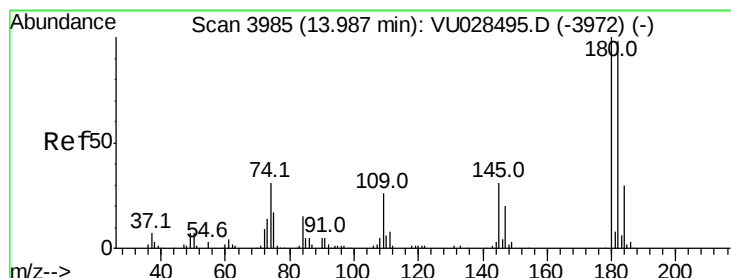
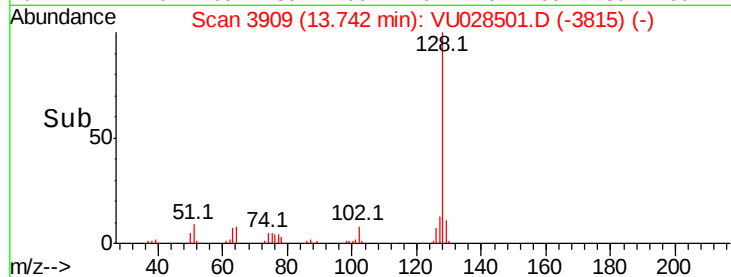
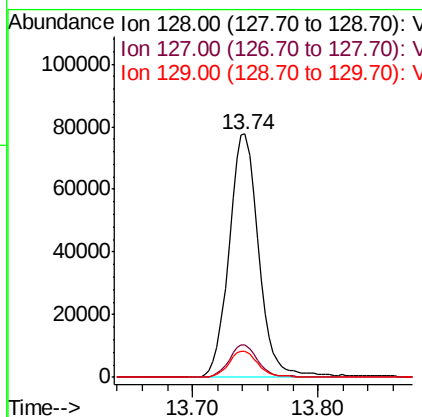
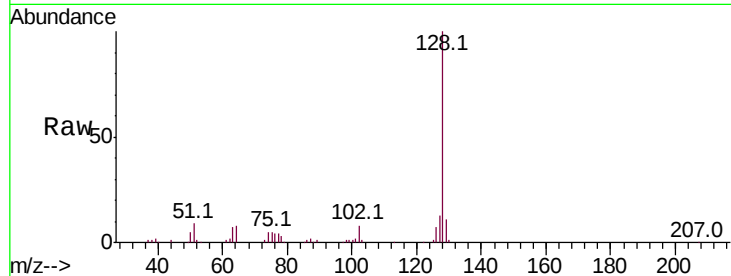
#95
Naphthalene
Concen: 17.546 ug/l
RT: 13.74 min Scan# 3909
Delta R.T. 0.00 min
Lab File: VU028501.D
Acq: 06 Dec 2018 15:26

Instrument :
MSVOA_U
ClientSampleId :
VU1206WBS01

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.1	10.4	15.6
129	10.8	8.6	13.0

Manual Integrations
APPROVED

MMDadoda
12/7/2018 10:35:15 AM



#96
1,2,3-Trichlorobenzene
Concen: 18.322 ug/l
RT: 13.99 min Scan# 3985
Delta R.T. 0.00 min
Lab File: VU028501.D
Acq: 06 Dec 2018 15:26

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.2	48.2	144.6
145	31.9	15.8	47.3

