

Data File : VU028913.D
Acq On : 22 Dec 2018 14:36
Operator : MD/SY
Sample : VU1222MBS02
Misc : 5.00g/10mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VU1222MBS02

Manual Integrations
APPROVED

apatel
1/2/2019 10:31:23 AM

Quant Time: Dec 24 06:06:56 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	109236	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.88	114	181496	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	169538	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	82324	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.31	65	71861	43.11	ug/l	0.00
Spiked Amount	50.000		Recovery	=	86.22%	
35) Dibromofluoromethane	4.88	113	60033	52.56	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.12%	
50) Toluene-d8	7.56	98	233212	51.62	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.24%	
62) 4-Bromofluorobenzene	10.30	95	81279	48.13	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.26%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.21	85	25963	17.732	ug/l	98
3) Chloromethane	1.33	50	40421	15.016	ug/l	99
4) Vinyl Chloride	1.40	62	35024	18.029	ug/l	98
5) Bromomethane	1.61	94	18296	23.381	ug/l	98
6) Chloroethane	1.69	64	20992	19.088	ug/l	99
7) Trichlorofluoromethane	1.88	101	37558	18.376	ug/l	98
8) Diethyl Ether	2.10	74	17517	18.319	ug/l	86
9) 1,1,2-Trichlorotrifluoroet	2.28	101	24591	20.118	ug/l	96
10) Methyl Iodide	2.41	142	22643	23.608	ug/l	94
11) Tert butyl alcohol	2.83	59	33319	89.711	ug/l	99
12) 1,1-Dichloroethene	2.28	96	23934	19.679	ug/l	88
13) Acrolein	2.19	56	20367	68.789	ug/l	96
14) Allyl chloride	2.59	41	43221	15.022	ug/l #	95
15) Acrylonitrile	2.94	53	89550	86.846	ug/l	100
16) Acetone	2.32	43	80273	73.794	ug/l	89
17) Carbon Disulfide	2.47	76	77680	17.729	ug/l	99
18) Methyl Acetate	2.61	43	48767	17.294	ug/l	94
19) Methyl tert-butyl Ether	3.00	73	83950	18.208	ug/l	98
20) Methylene Chloride	2.70	84	30642	19.108	ug/l	87
21) trans-1,2-Dichloroethene	2.98	96	25938	18.942	ug/l	91
22) Diisopropyl ether	3.57	45	92685	16.565	ug/l #	97
23) Vinyl Acetate	3.52	43	358121	77.598	ug/l #	95
24) 1,1-Dichloroethane	3.44	63	52002	17.755	ug/l	99
25) 2-Butanone	4.26	43	117860	79.282	ug/l	95
26) 2,2-Dichloropropane	4.22	77	38219	16.469	ug/l	95
27) cis-1,2-Dichloroethene	4.22	96	29923	19.306	ug/l	90
28) Bromochloromethane	4.55	49	21674	16.279	ug/l #	81
29) Tetrahydrofuran	4.64	42	78288	81.999	ug/l	90
30) Chloroform	4.67	83	48359	18.945	ug/l	95
31) Cyclohexane	4.99	56	51241	17.142	ug/l	92
32) 1,1,1-Trichloroethane	4.91	97	38514	18.167	ug/l	97
36) 1,1-Dichloropropene	5.13	75	36522	18.389	ug/l	98
37) Ethyl Acetate	4.38	43	43297	16.864	ug/l	96
38) Carbon Tetrachloride	5.13	117	30680	19.166	ug/l	99

Data File : VU028913.D
Acq On : 22 Dec 2018 14:36
Operator : MD/SY
Sample : VU1222MBS02
Misc : 5.00g/10mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VU1222MBS02

Manual Integrations
APPROVED

apatel
1/2/2019 10:31:23 AM

Quant Time: Dec 24 06:06:56 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	44501	18.366	ug/l	93
40) Benzene	5.39	78	117417	20.073	ug/l	97
41) Methacrylonitrile	4.54	41	24208	17.217	ug/l	95
42) 1,2-Dichloroethane	5.40	62	37616	18.371	ug/l	99
43) Isopropyl Acetate	5.55	43	67441	16.607	ug/l #	95
44) Trichloroethene	6.19	130	27662	21.268	ug/l	92
45) 1,2-Dichloropropane	6.43	63	31949	19.423	ug/l	99
46) Dibromomethane	6.56	93	19761	20.247	ug/l	94
47) Bromodichloromethane	6.76	83	36091	19.003	ug/l	98
48) Methyl methacrylate	6.62	41	32547	16.116	ug/l #	88
49) 1,4-Dioxane	6.61	88	15004	470.535	ug/l	94
51) 4-Methyl-2-Pentanone	7.46	43	214690	83.822	ug/l	94
52) Toluene	7.64	92	70137	20.374	ug/l	100
53) t-1,3-Dichloropropene	7.88	75	41745	18.456	ug/l	98
54) cis-1,3-Dichloropropene	7.27	75	46814	19.077	ug/l #	90
55) 1,1,2-Trichloroethane	8.06	97	28985	21.300	ug/l	97
56) Ethyl methacrylate	8.02	69	43419	18.632	ug/l	86
57) 1,3-Dichloropropane	8.24	76	50048	19.813	ug/l	99
58) 2-Chloroethyl Vinyl ether	7.13	63	100060	83.831	ug/l	94
59) 2-Hexanone	8.36	43	165263	81.408	ug/l	92
60) Dibromochloromethane	8.48	129	26185	19.654	ug/l	99
61) 1,2-Dibromoethane	8.58	107	30664	21.488	ug/l	100
64) Tetrachloroethene	8.23	164	25537	22.582	ug/l	97
65) Chlorobenzene	9.12	112	75306	20.845	ug/l	100
66) 1,1,1,2-Tetrachloroethane	9.21	131	24865	21.553	ug/l	100
67) Ethyl Benzene	9.25	91	129750	19.537	ug/l	99
68) m/p-Xylenes	9.37	106	97750	40.450	ug/l	96
69) o-Xylene	9.78	106	48163	20.509	ug/l	94
70) Styrene	9.79	104	78484	20.194	ug/l	96
71) Bromoform	9.96	173	20724	21.117	ug/l #	100
73) Isopropylbenzene	10.16	105	125563	19.877	ug/l	99
74) N-amyl acetate	10.01	43	55683	15.281	ug/l	92
75) 1,1,2,2-Tetrachloroethane	10.46	83	49671	20.469	ug/l	100
76) 1,2,3-Trichloropropane	10.49	75	38785m	18.450	ug/l	
77) Bromobenzene	10.45	156	31115	21.061	ug/l	93
78) n-propylbenzene	10.58	91	147254	18.760	ug/l	97
79) 2-Chlorotoluene	10.66	91	89484	19.791	ug/l	96
80) 1,3,5-Trimethylbenzene	10.77	105	104000	19.889	ug/l	97
81) trans-1,4-Dichloro-2-buten	10.51	75	14790m	17.641	ug/l	
82) 4-Chlorotoluene	10.77	91	99910	18.647	ug/l	96
83) tert-Butylbenzene	11.10	119	98749	19.593	ug/l	98
84) 1,2,4-Trimethylbenzene	11.15	105	106552	19.772	ug/l	96
85) sec-Butylbenzene	11.32	105	125741	19.420	ug/l	98
86) p-Isopropyltoluene	11.48	119	104208	18.946	ug/l	97
87) 1,3-Dichlorobenzene	11.41	146	57221	20.512	ug/l	97
88) 1,4-Dichlorobenzene	11.50	146	57383	19.881	ug/l	99
89) n-Butylbenzene	11.89	91	91618	16.459	ug/l	98
90) Hexachloroethane	12.14	117	16259	19.558	ug/l	96
91) 1,2-Dichlorobenzene	11.88	146	57304	20.536	ug/l	97
92) 1,2-Dibromo-3-Chloropropan	12.66	75	9699	18.462	ug/l	86

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU122218\
Quantitation Report (QT Reviewed)

Data File : VU028913.D
Acq On : 22 Dec 2018 14:36
Operator : MD/SY
Sample : VU1222MBS02
Misc : 5.00g/10mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VU1222MBS02

Manual Integrations
APPROVED

apatel
1/2/2019 10:31:23 AM

Quant Time: Dec 24 06:06:56 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)
93) 1,2,4-Trichlorobenzene	13.50	180	34738	18.654	ug/l	98
94) Hexachlorobutadiene	13.69	225	16551	18.107	ug/l	96
95) Naphthalene	13.74	128	116155	17.347	ug/l	99
96) 1,2,3-Trichlorobenzene	13.99	180	36923	19.437	ug/l	98

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

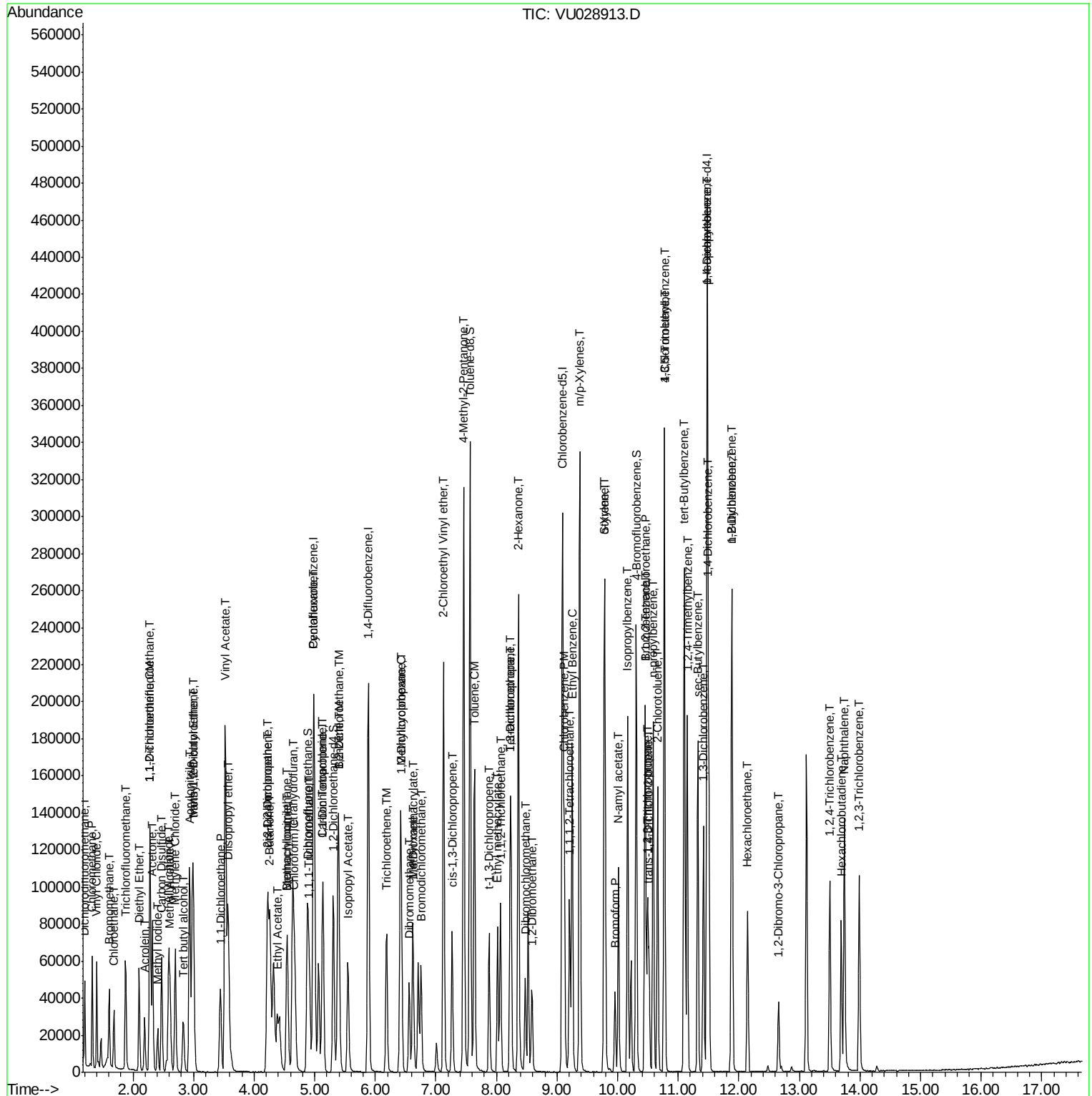
Data File : VU028913.D
Acq On : 22 Dec 2018 14:36
Operator : MD/SY
Sample : VU1222MBS02
Misc : 5.00g/10mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 6 Sample Multiplier: 1

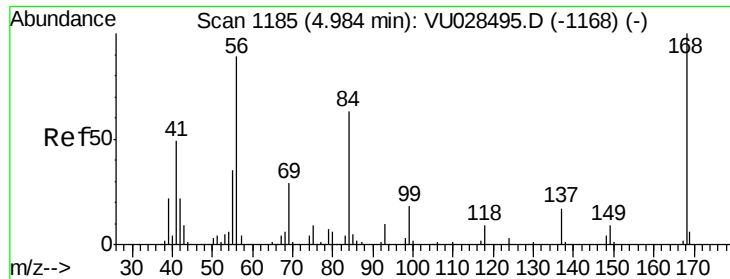
Instrument :
MSVOA_U
ClientSampleId :
VU1222MBS02

Manual Integrations
APPROVED

apatel
1/2/2019 10:31:23 AM

Quant Time: Dec 24 06:06:56 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





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.98 min Scan# 1184

Delta R.T. -0.00 min

Lab File: VU028913.D

Acq: 22 Dec 2018 14:36

Instrument :

MSVOA_U

ClientSampleId :

VU1222MBS02

Tgt Ion: 168 Resp: 109236

Ion Ratio Lower Upper

168 100

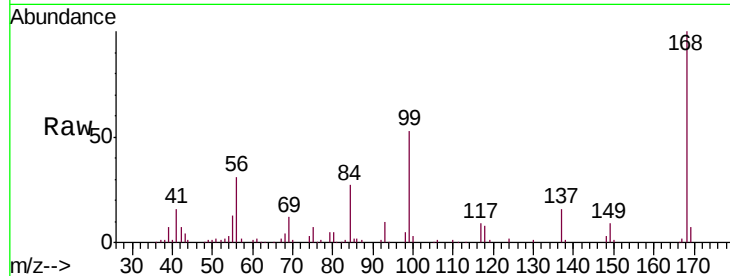
99 52.9 46.6 69.8

Manual Integrations

APPROVED

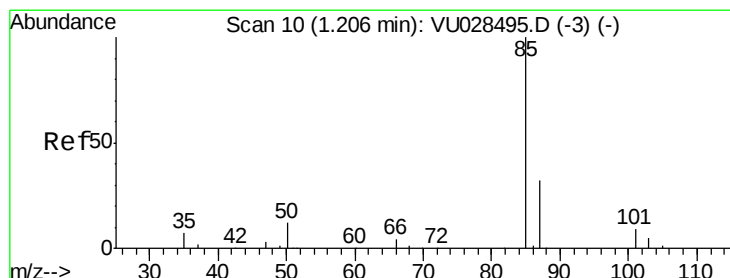
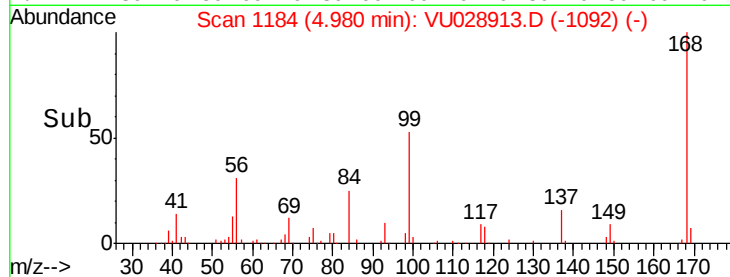
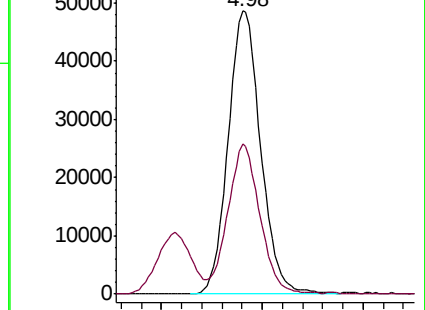
apatel

1/2/2019 10:31:23 AM



Abundance Ion 167.90 (167.60 to 168.60): VU028495.D (-1168) (-)

Ion 98.90 (98.60 to 99.60): VU028495.D (-1168) (-)



#2

Dichlorodifluoromethane

Concen: 17.732 ug/l

RT: 1.21 min Scan# 10

Delta R.T. -0.00 min

Lab File: VU028913.D

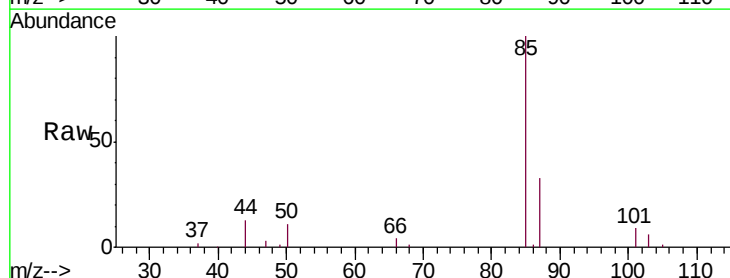
Acq: 22 Dec 2018 14:36

Tgt Ion: 85 Resp: 25963

Ion Ratio Lower Upper

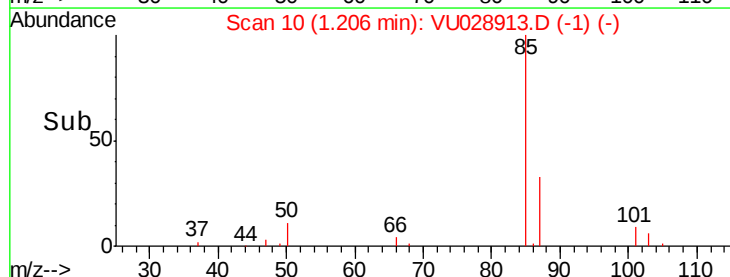
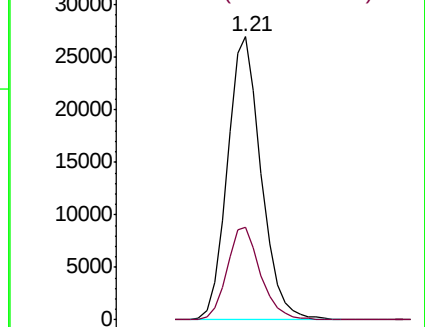
85 100

87 32.9 15.9 47.6



Abundance Ion 84.90 (84.60 to 85.60): VU028495.D (-3) (-)

Ion 86.90 (86.60 to 87.60): VU028495.D (-3) (-)





#3

Chloromethane

Concen: 15.016 ug/l

RT: 1.33 min Scan# 48

Delta R.T. -0.00 min

Lab File: VU028913.D

Acq: 22 Dec 2018 14:36

Instrument :

MSVOA_U

ClientSampleId :

VU1222MBS02

Tgt Ion: 50 Resp: 40421

Ion Ratio Lower Upper

50 100

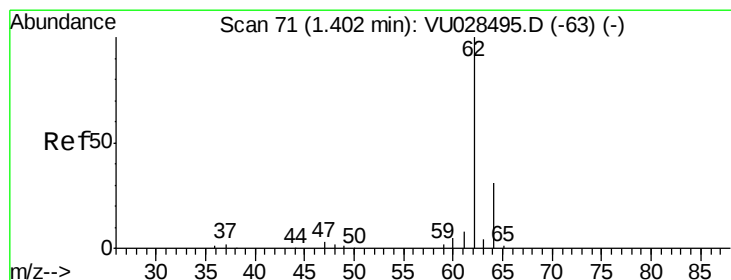
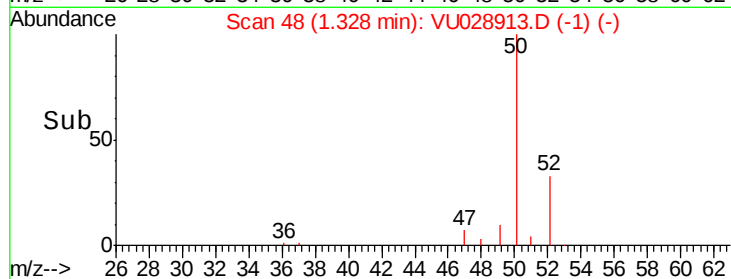
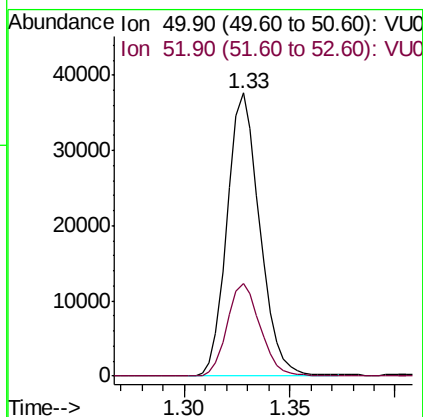
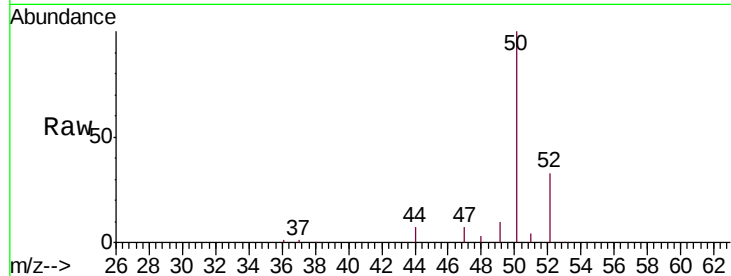
52 32.7 25.5 38.3

Manual Integrations

APPROVED

apatel

1/2/2019 10:31:23 AM



#4

Vinyl Chloride

Concen: 18.029 ug/l

RT: 1.40 min Scan# 71

Delta R.T. -0.00 min

Lab File: VU028913.D

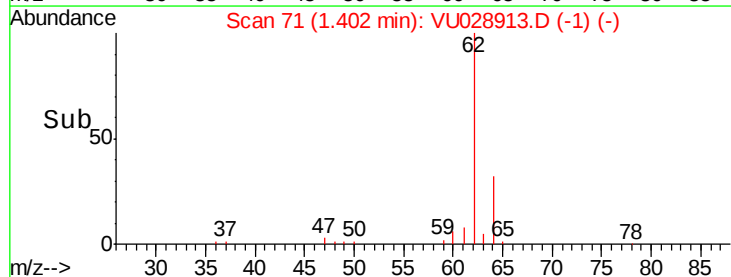
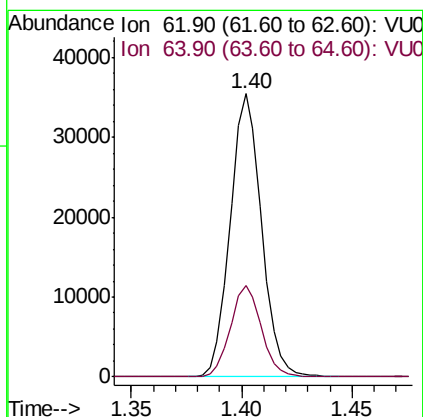
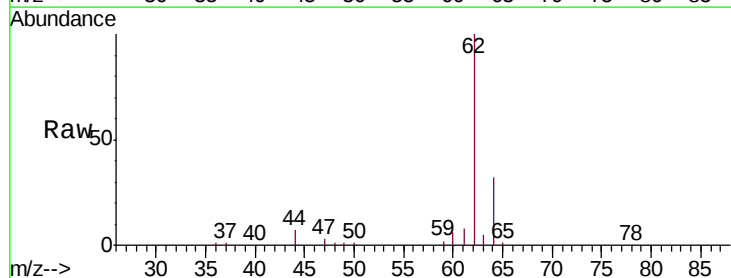
Acq: 22 Dec 2018 14:36

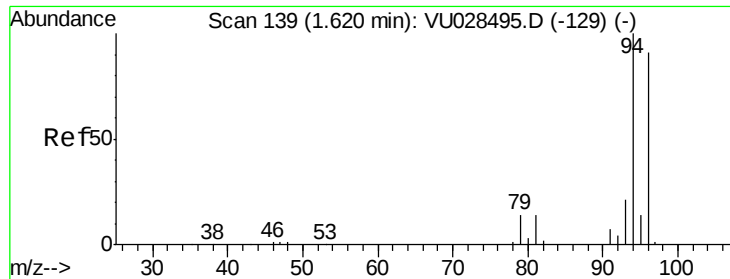
Tgt Ion: 62 Resp: 35024

Ion Ratio Lower Upper

62 100

64 32.4 25.1 37.7





#5

Bromomethane

Concen: 23.381 ug/l

RT: 1.61 min Scan# 135

Delta R.T. -0.01 min

Lab File: VU028913.D

Acq: 22 Dec 2018 14:36

Instrument :

MSVOA_U

ClientSampleId :

VU1222MBS02

Tgt Ion: 94 Resp: 18296

Ion Ratio Lower Upper

94 100

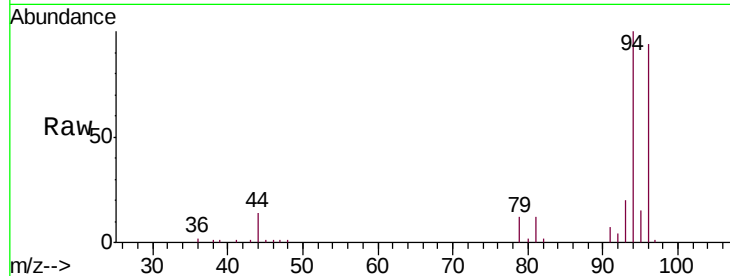
96 93.8 73.2 109.8

Manual Integrations

APPROVED

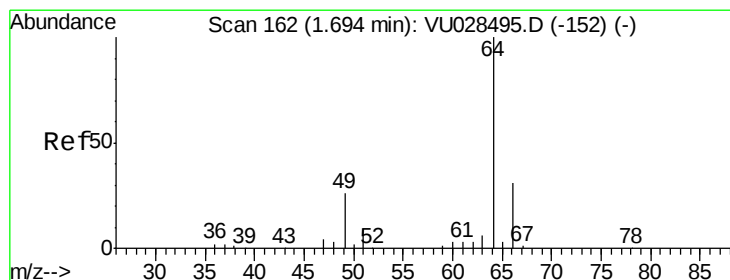
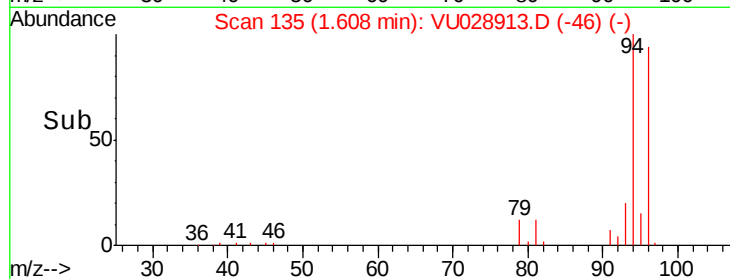
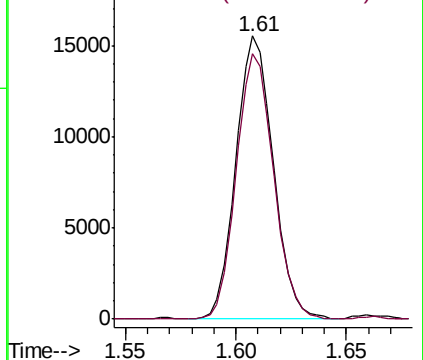
apatel

1/2/2019 10:31:23 AM



Abundance Ion 93.90 (93.60 to 94.60): VU0

Ion 95.90 (95.60 to 96.60): VU0



#6

Chloroethane

Concen: 19.088 ug/l

RT: 1.69 min Scan# 160

Delta R.T. -0.01 min

Lab File: VU028913.D

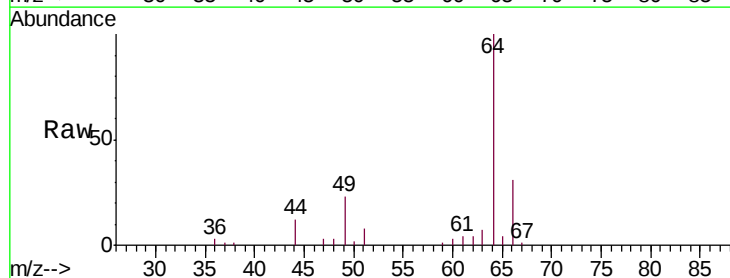
Acq: 22 Dec 2018 14:36

Tgt Ion: 64 Resp: 20992

Ion Ratio Lower Upper

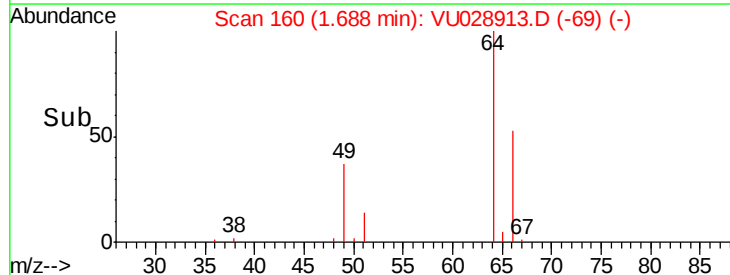
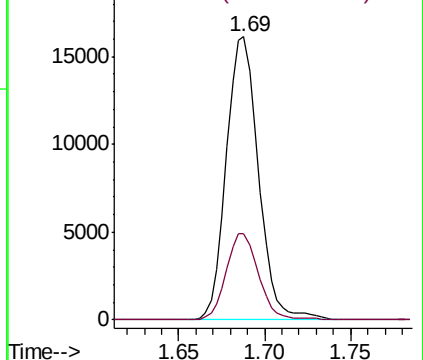
64 100

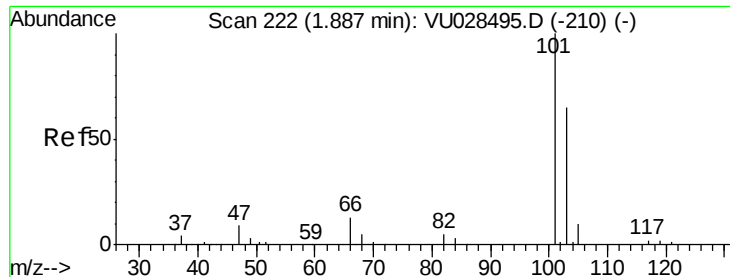
66 30.6 25.0 37.6



Abundance Ion 63.90 (63.60 to 64.60): VU0

Ion 65.90 (65.60 to 66.60): VU0





#7

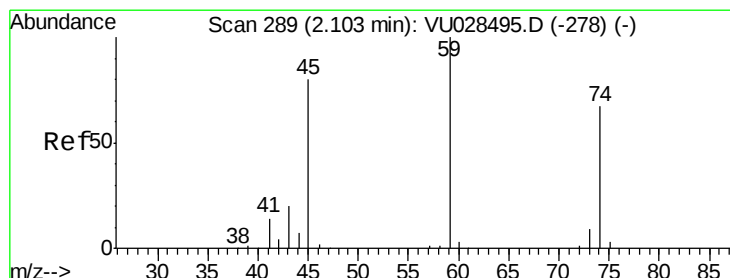
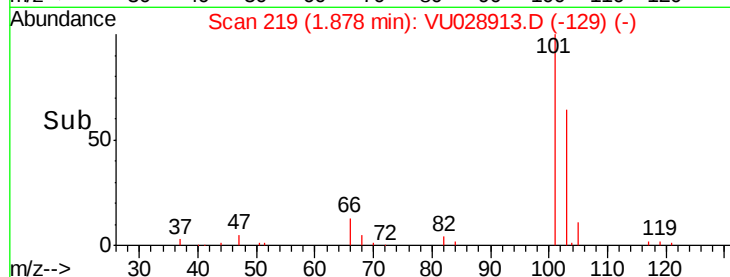
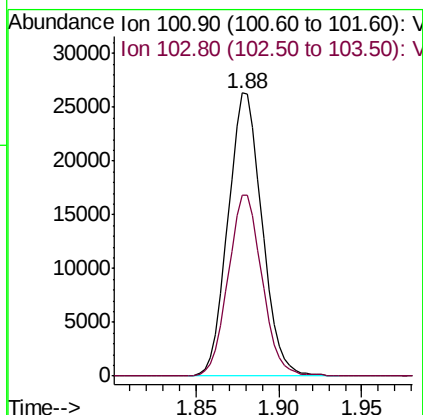
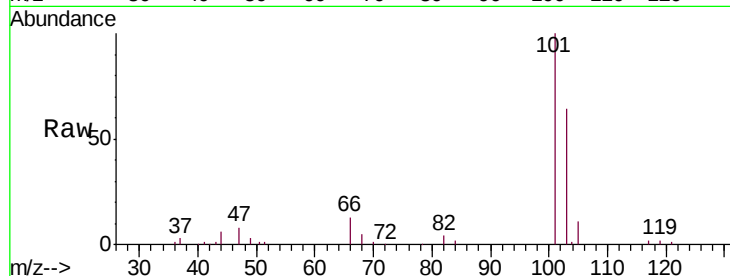
Trichlorofluoromethane
Concen: 18.376 ug/l
RT: 1.88 min Scan# 219
Delta R.T. -0.01 min
Lab File: VU028913.D
Acq: 22 Dec 2018 14:36

Instrument :
MSVOA_U
ClientSampleId :
VU1222MBS02

Tgt Ion:101 Resp: 37558
Ion Ratio Lower Upper
101 100
103 64.0 52.3 78.5

Manual Integrations
APPROVED

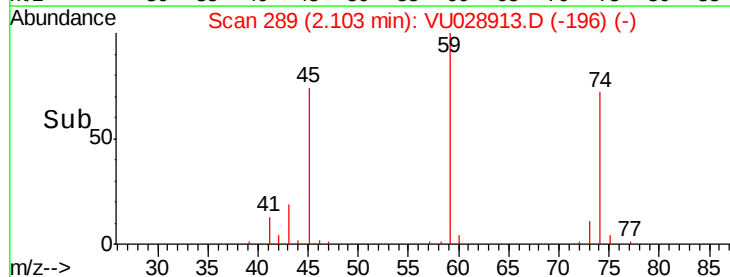
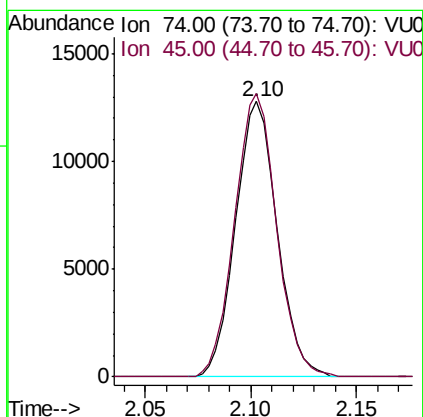
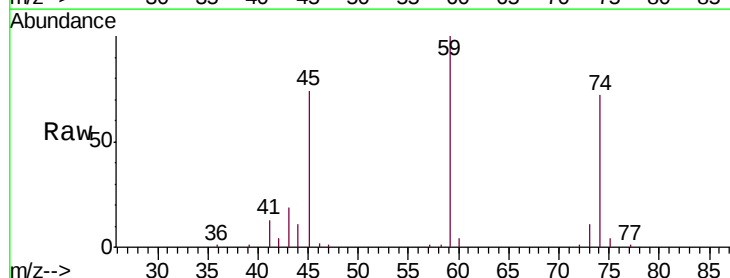
apatel
1/2/2019 10:31:23 AM

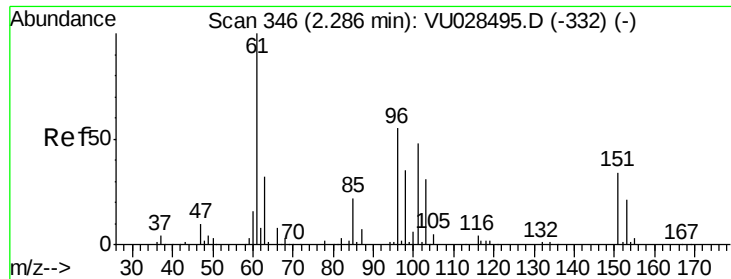


#8

Diethyl Ether
Concen: 18.319 ug/l
RT: 2.10 min Scan# 289
Delta R.T. 0.00 min
Lab File: VU028913.D
Acq: 22 Dec 2018 14:36

Tgt Ion: 74 Resp: 17517
Ion Ratio Lower Upper
74 100
45 103.4 59.7 179.0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 20.118 ug/l

RT: 2.28 min Scan# 345

Delta R.T. -0.00 min

Lab File: VU028913.D

Acq: 22 Dec 2018 14:36

Instrument :

MSVOA_U

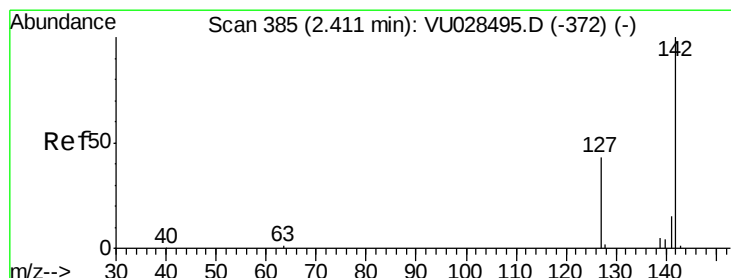
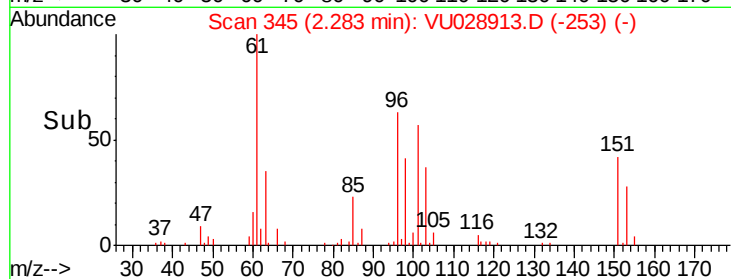
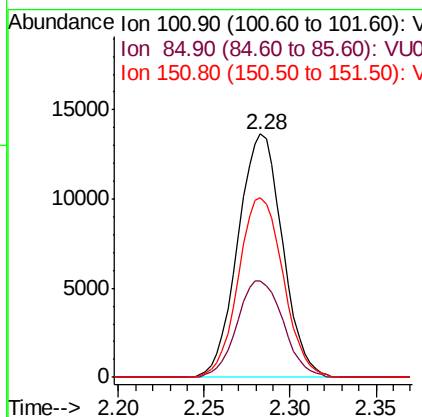
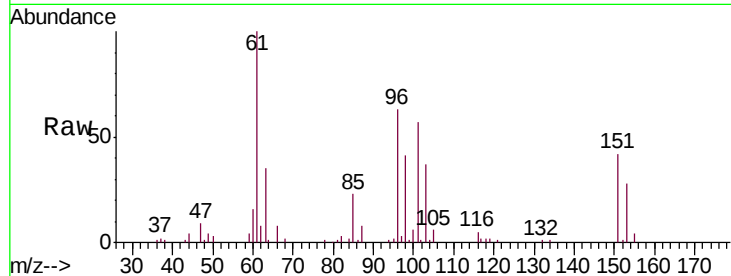
ClientSampleId :

VU1222MBS02

Tgt Ion:	101	Resp:	24591
Ion Ratio	Lower	Upper	
101	100		
85	41.0	36.4	54.6
151	74.3	58.2	87.2

Manual Integrations
APPROVED

apatel
1/2/2019 10:31:23 AM



#10

Methyl Iodide

Concen: 23.608 ug/l

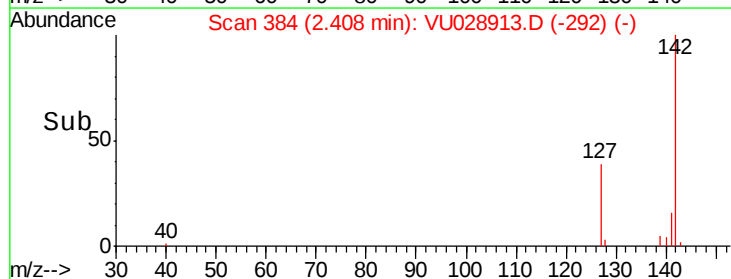
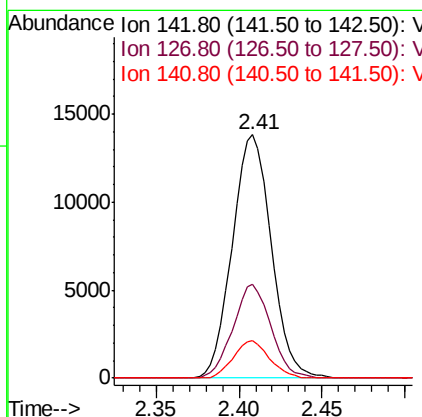
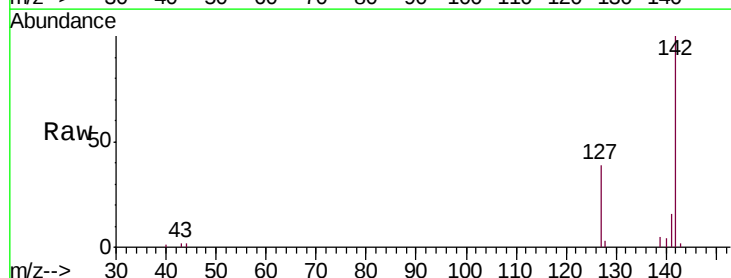
RT: 2.41 min Scan# 384

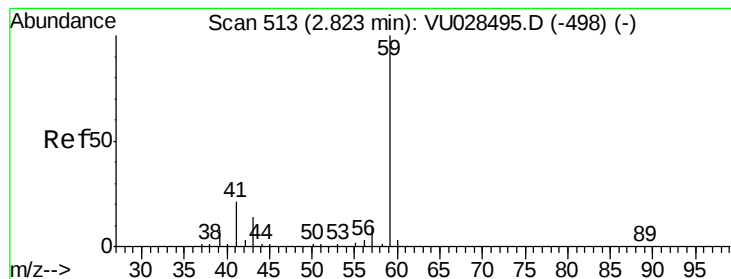
Delta R.T. -0.00 min

Lab File: VU028913.D

Acq: 22 Dec 2018 14:36

Tgt Ion:	142	Resp:	22643
Ion Ratio	Lower	Upper	
142	100		
127	37.3	33.5	50.3
141	14.2	11.2	16.8





#11

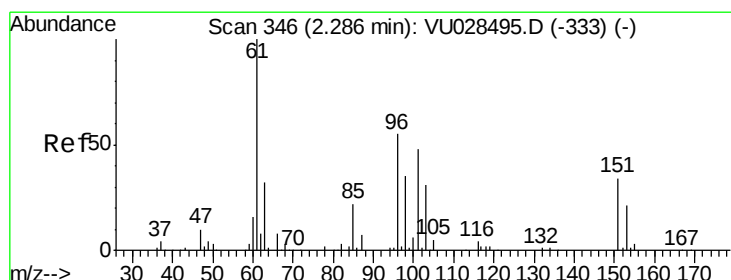
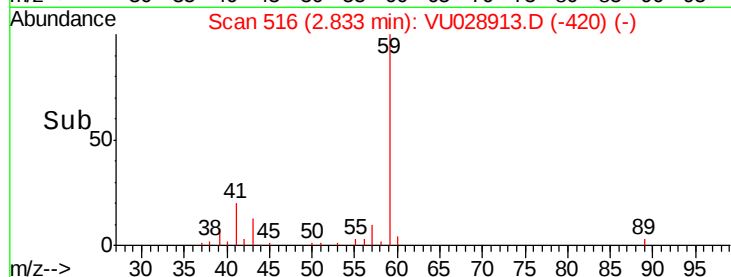
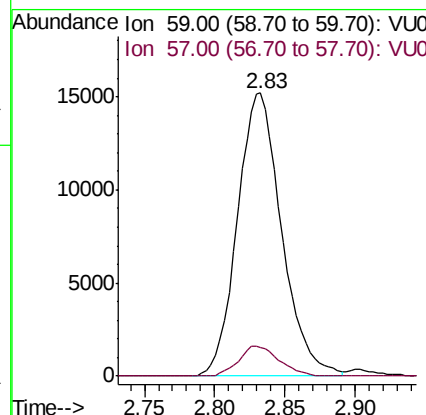
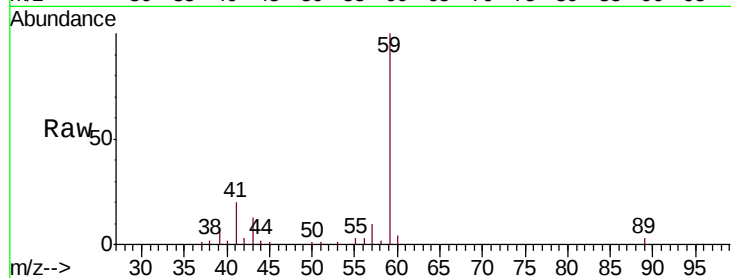
Tert butyl alcohol
 Concen: 89.711 ug/l
 RT: 2.83 min Scan# 516
 Delta R.T. 0.01 min
 Lab File: VU028913.D
 Acq: 22 Dec 2018 14:36

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1222MBS02

Tgt Ion	Ratio	Lower	Upper
59	100		
57	9.7	8.0	12.0

Manual Integrations
 APPROVED

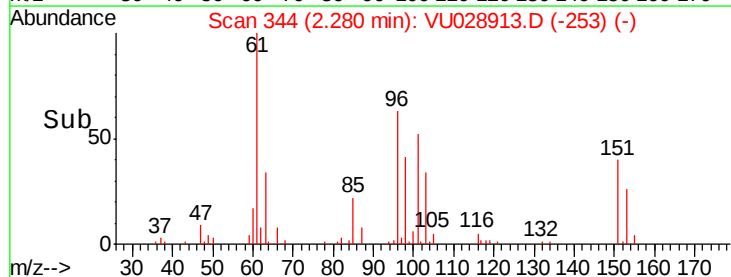
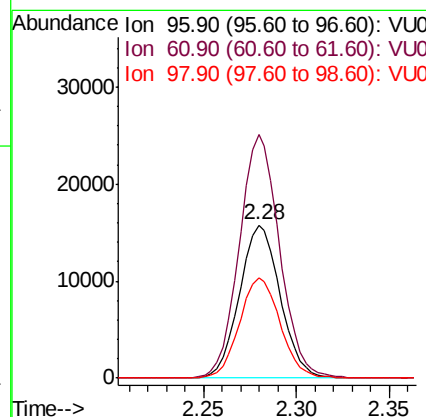
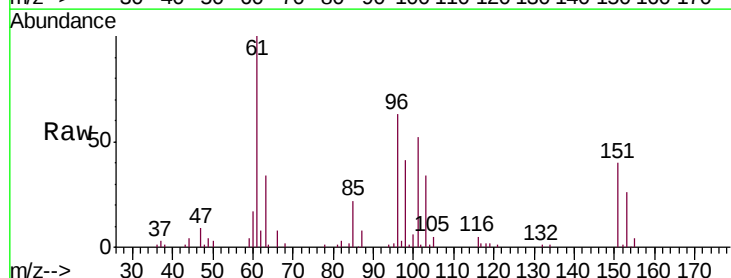
apatel
 1/2/2019 10:31:23 AM

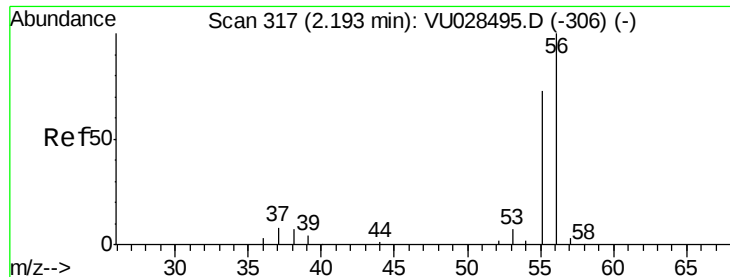


#12

1,1-Dichloroethene
 Concen: 19.679 ug/l
 RT: 2.28 min Scan# 344
 Delta R.T. -0.01 min
 Lab File: VU028913.D
 Acq: 22 Dec 2018 14:36

Tgt Ion	Ratio	Lower	Upper
96	100		
61	159.2	146.4	219.6
98	65.3	51.8	77.8





#13

Acrolein

Concen: 68.789 ug/l

RT: 2.19 min Scan# 317

Delta R.T. -0.00 min

Lab File: VU028913.D

Acq: 22 Dec 2018 14:36

Instrument :

MSVOA_U

ClientSampleId :

VU1222MBS02

Tgt Ion: 56 Resp: 20367

Ion Ratio Lower Upper

56 100

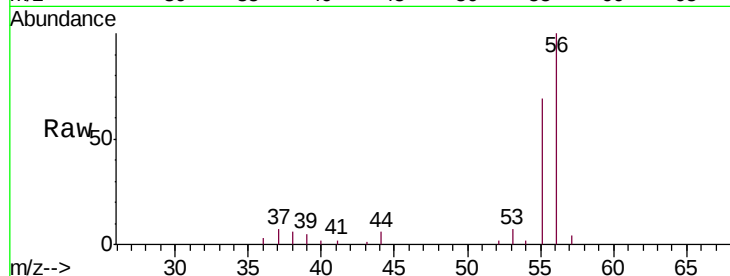
55 68.5 57.5 86.3

Manual Integrations

APPROVED

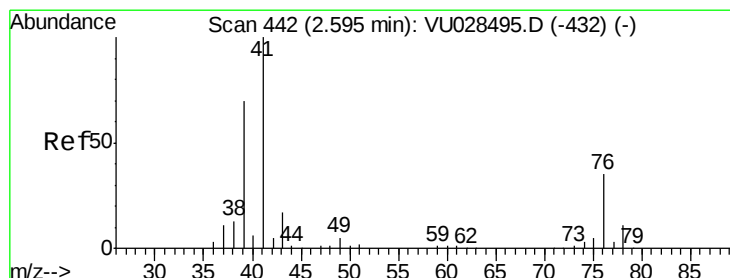
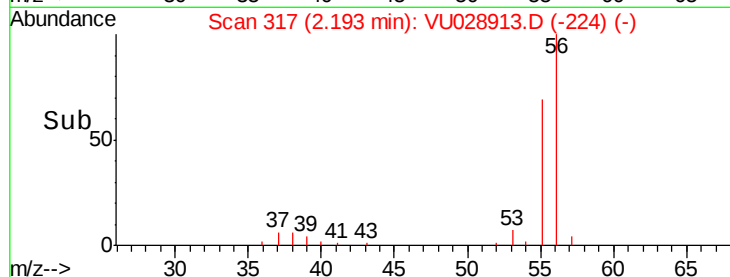
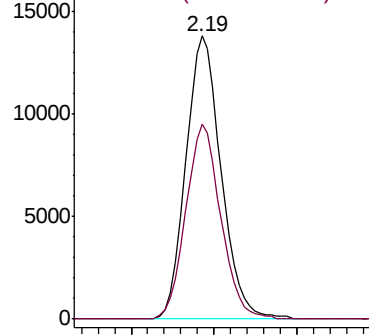
apatel

1/2/2019 10:31:23 AM



Abundance Ion 56.00 (55.70 to 56.70): VU0

Ion 55.00 (54.70 to 55.70): VU0



#14

Allyl chloride

Concen: 15.022 ug/l

RT: 2.59 min Scan# 440

Delta R.T. -0.01 min

Lab File: VU028913.D

Acq: 22 Dec 2018 14:36

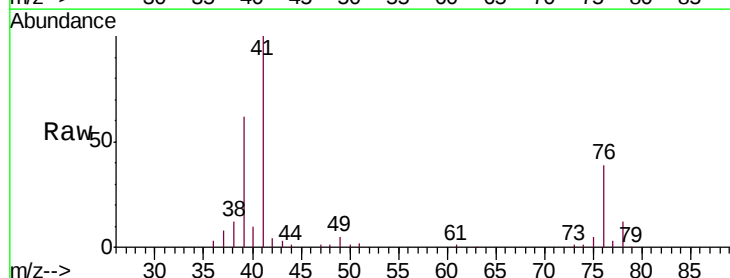
Tgt Ion: 41 Resp: 43221

Ion Ratio Lower Upper

41 100

39 61.9 50.8 76.2

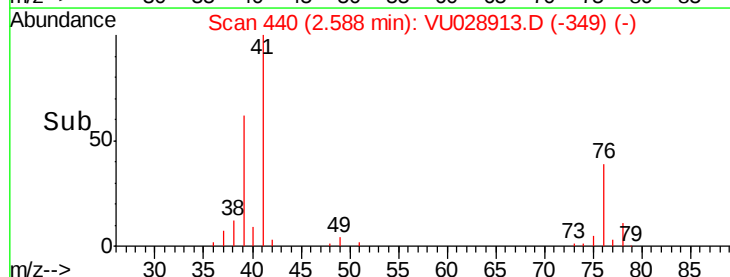
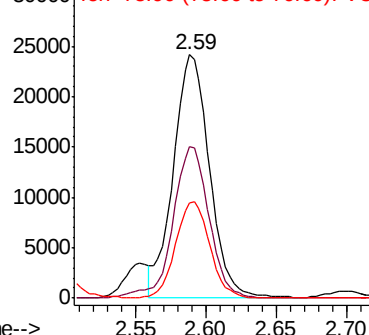
76 37.2 24.8 37.2#

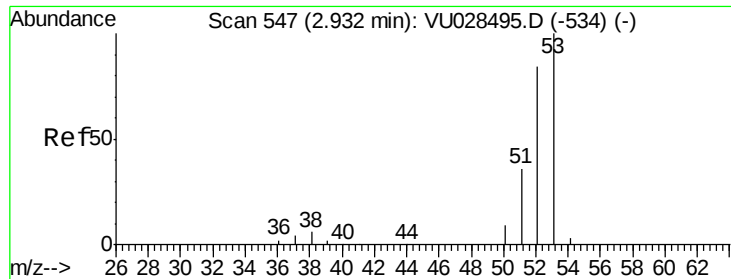


Abundance Ion 41.00 (40.70 to 41.70): VU0

Ion 39.00 (38.70 to 39.70): VU0

Ion 75.90 (75.60 to 76.60): VU0





#15

Acrylonitrile

Concen: 86.846 ug/l

RT: 2.94 min Scan# 548

Delta R.T. 0.00 min

Lab File: VU028913.D

Acq: 22 Dec 2018 14:36

Instrument :

MSVOA_U

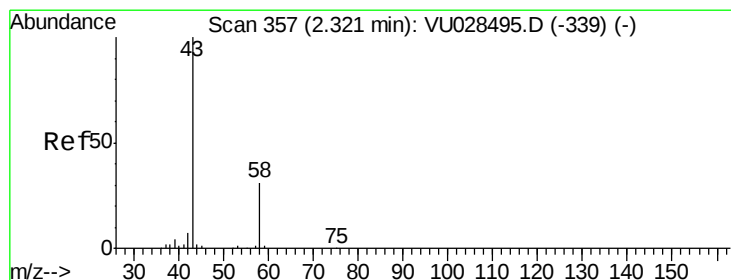
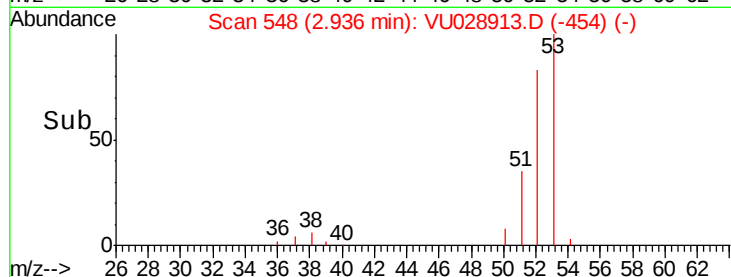
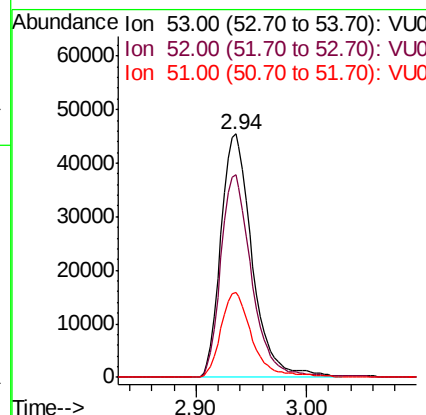
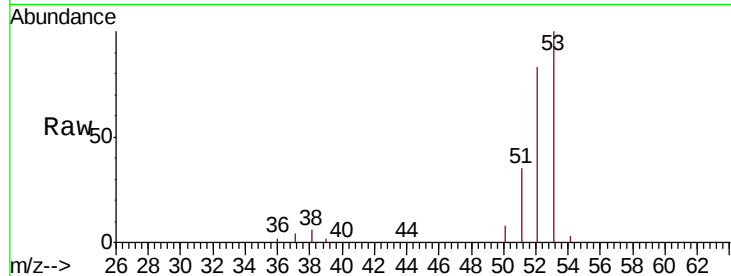
ClientSampleId :

VU1222MBS02

Tgt Ion:	53	Resp:	89550
Ion	Ratio	Lower	Upper
53	100		
52	82.2	66.1	99.1
51	35.0	28.1	42.1

Manual Integrations
APPROVED

apatel
1/2/2019 10:31:23 AM



#16

Acetone

Concen: 73.794 ug/l

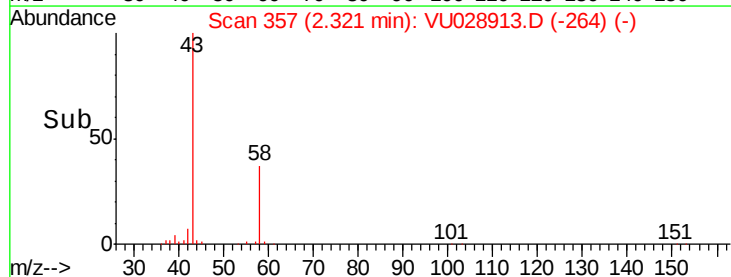
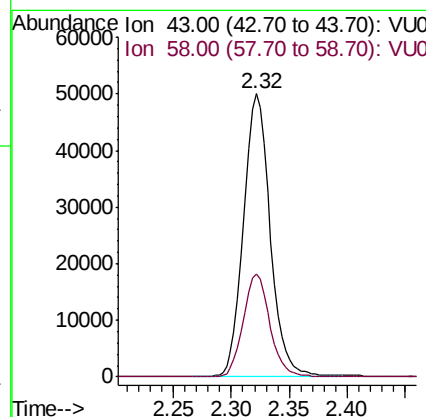
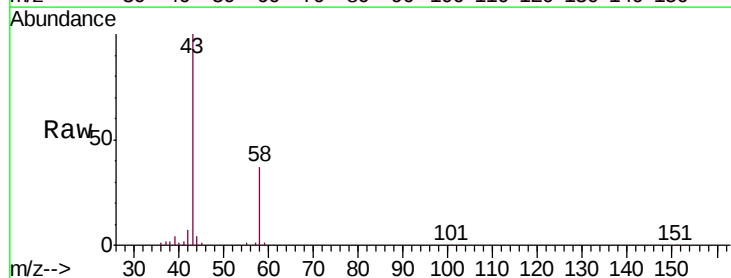
RT: 2.32 min Scan# 357

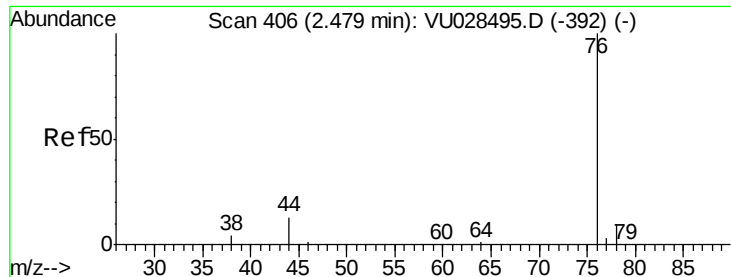
Delta R.T. -0.00 min

Lab File: VU028913.D

Acq: 22 Dec 2018 14:36

Tgt Ion:	43	Resp:	80273
Ion	Ratio	Lower	Upper
43	100		
58	36.6	24.6	37.0





#17

Carbon Disulfide

Concen: 17.729 ug/l

RT: 2.47 min Scan# 404

Delta R.T. -0.01 min

Lab File: VU028913.D

Acq: 22 Dec 2018 14:36

Instrument :

MSVOA_U

ClientSampleId :

VU1222MBS02

Tgt Ion: 76 Resp: 77680

Ion Ratio Lower Upper

76 100

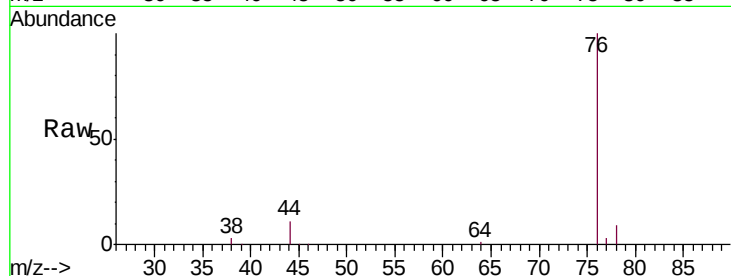
78 9.4 7.2 10.8

Manual Integrations

APPROVED

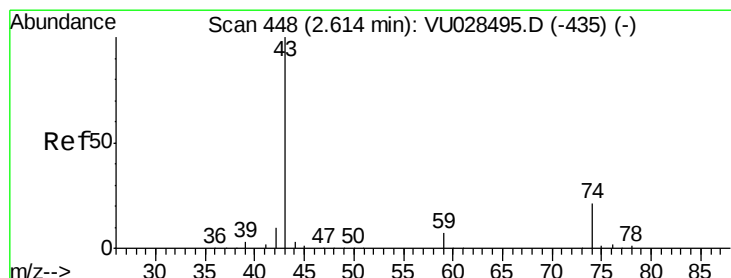
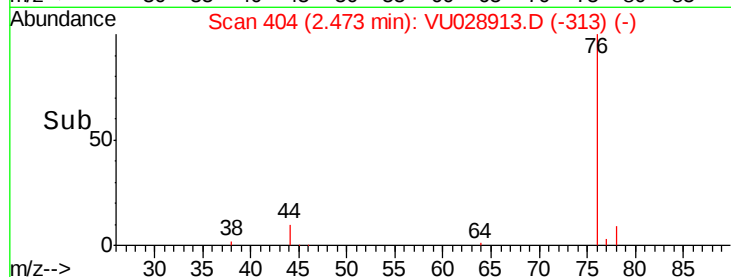
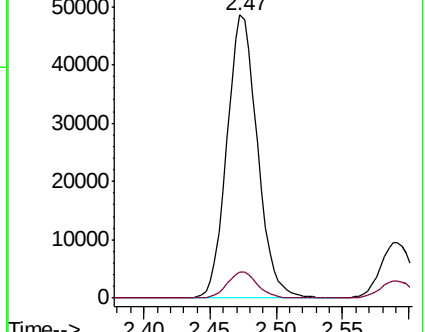
apatel

1/2/2019 10:31:23 AM



Abundance Ion 75.90 (75.60 to 76.60): VU028495.D (-392) (-)

Ion 77.90 (77.60 to 78.60): VU028495.D (-392) (-)



#18

Methyl Acetate

Concen: 17.294 ug/l

RT: 2.61 min Scan# 448

Delta R.T. 0.00 min

Lab File: VU028913.D

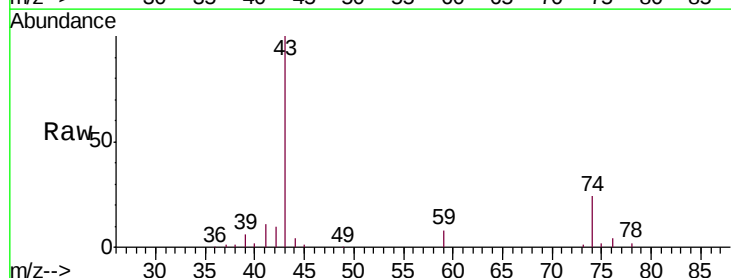
Acq: 22 Dec 2018 14:36

Tgt Ion: 43 Resp: 48767

Ion Ratio Lower Upper

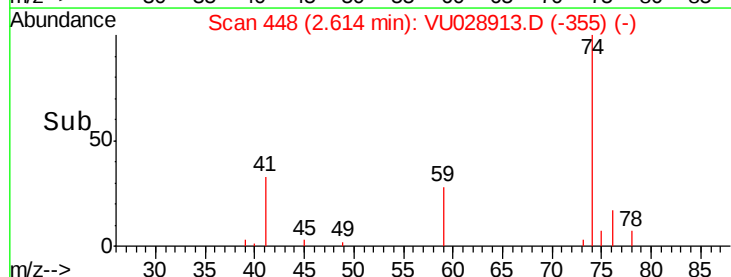
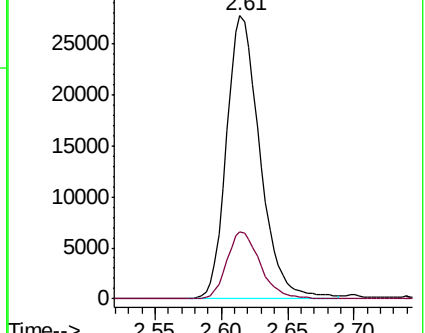
43 100

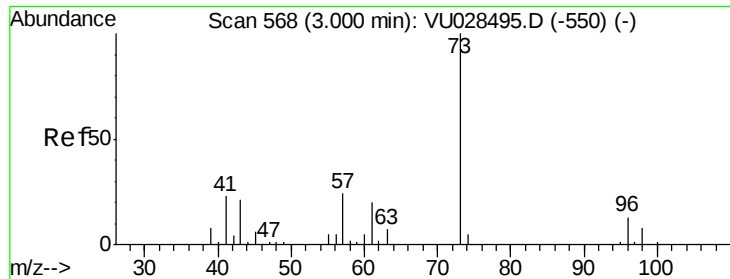
74 23.5 16.4 24.6



Abundance Ion 43.00 (42.70 to 43.70): VU028495.D (-435) (-)

Ion 74.00 (73.70 to 74.70): VU028495.D (-435) (-)





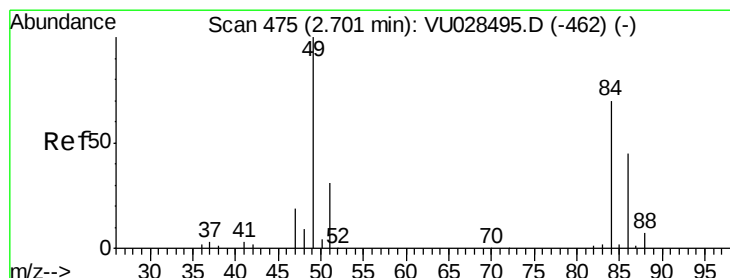
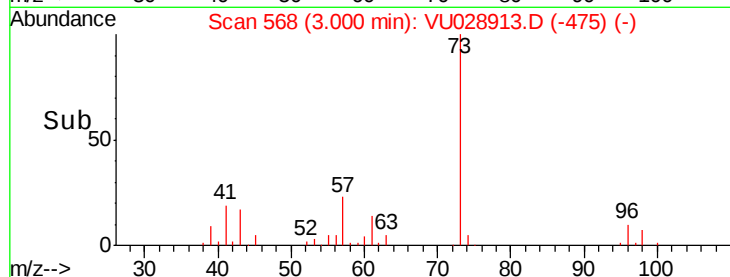
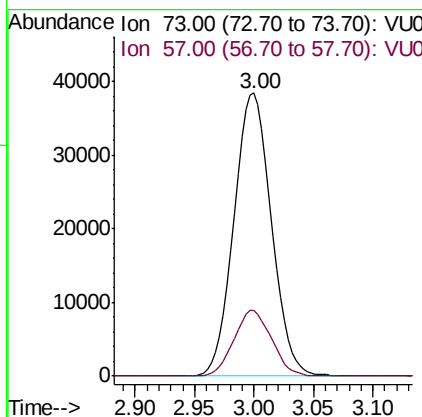
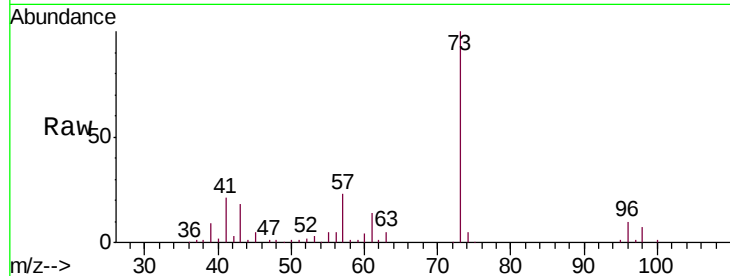
#19
Methyl tert-butyl Ether
Concen: 18.208 ug/l
RT: 3.00 min Scan# 568
Delta R.T. 0.00 min
Lab File: VU028913.D
Acq: 22 Dec 2018 14:36

Instrument :
MSVOA_U
ClientSampleId :
VU1222MBS02

Tgt Ion: 73 Resp: 83950
Ion Ratio Lower Upper
73 100
57 23.3 19.4 29.2

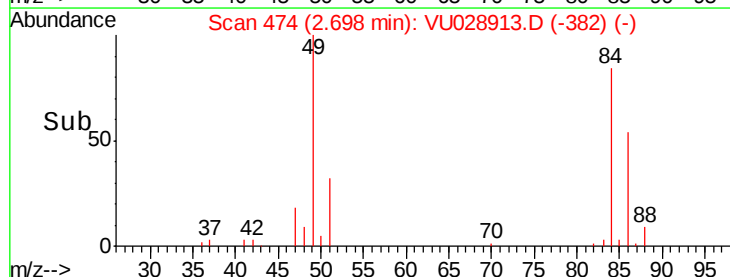
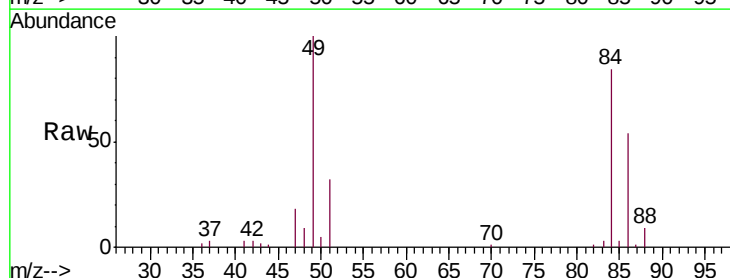
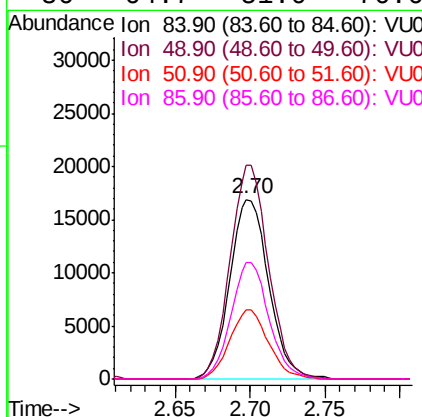
Manual Integrations
APPROVED

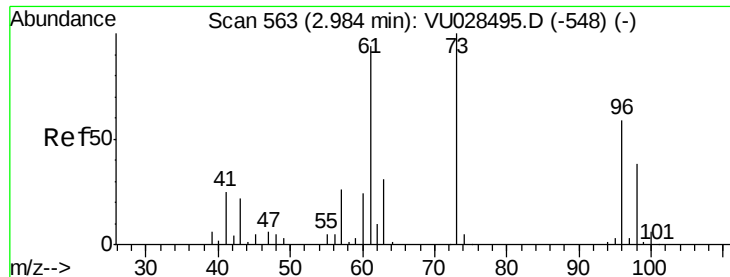
apatel
1/2/2019 10:31:23 AM



#20
Methylene Chloride
Concen: 19.108 ug/l
RT: 2.70 min Scan# 474
Delta R.T. -0.00 min
Lab File: VU028913.D
Acq: 22 Dec 2018 14:36

Tgt Ion: 84 Resp: 30642
Ion Ratio Lower Upper
84 100
49 118.8 114.0 171.0
51 38.1 35.1 52.7
86 64.7 51.0 76.6





#21

trans-1,2-Dichloroethene

Concen: 18.942 ug/l

RT: 2.98 min Scan# 562

Delta R.T. -0.00 min

Lab File: VU028913.D

Acq: 22 Dec 2018 14:36

Instrument :

MSVOA_U

ClientSampleId :

VU1222MBS02

Tgt Ion: 96 Resp: 25938

Ion Ratio Lower Upper

96 100

61 143.1 127.0 190.4

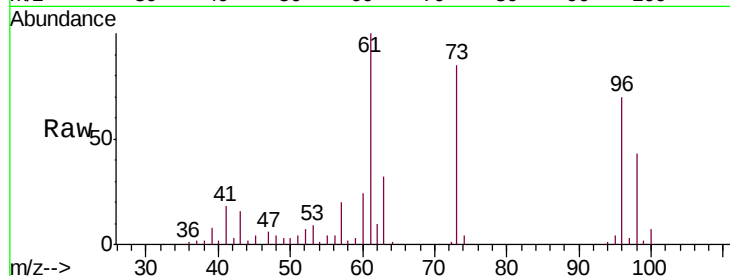
98 62.1 51.9 77.9

Manual Integrations

APPROVED

apatel

1/2/2019 10:31:23 AM

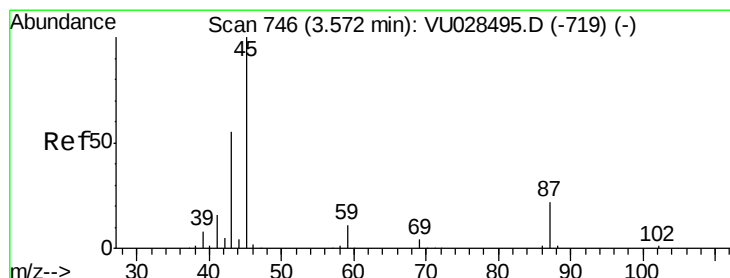
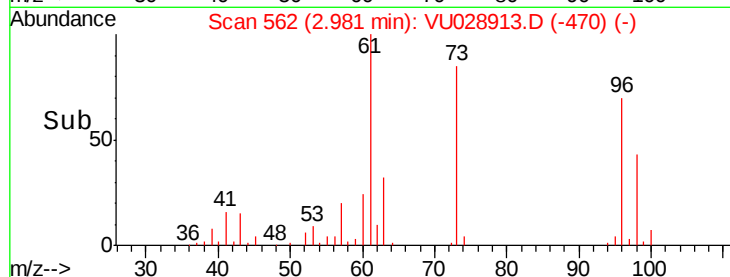
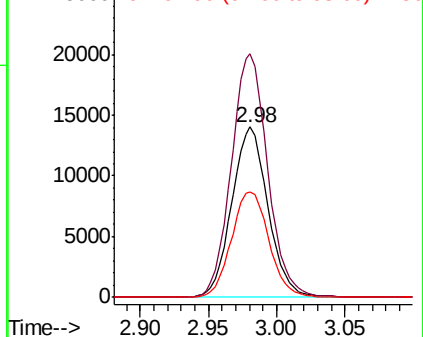


Abundance

Ion 95.90 (95.60 to 96.60): VU0

Ion 60.90 (60.60 to 61.60): VU0

Ion 97.90 (97.60 to 98.60): VU0



#22

Diisopropyl ether

Concen: 16.565 ug/l

RT: 3.57 min Scan# 745

Delta R.T. -0.00 min

Lab File: VU028913.D

Acq: 22 Dec 2018 14:36

Tgt Ion: 45 Resp: 92685

Ion Ratio Lower Upper

45 100

43 57.6 45.3 67.9

87 26.6 17.6 26.4#

59 11.7 8.8 13.2

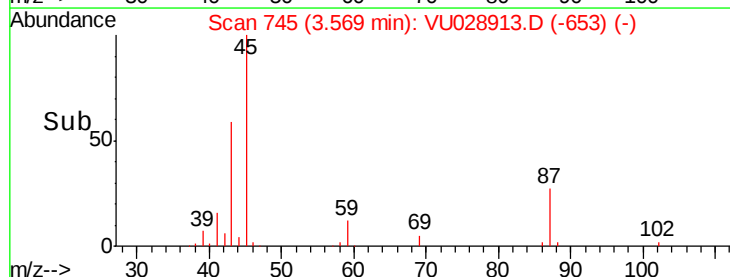
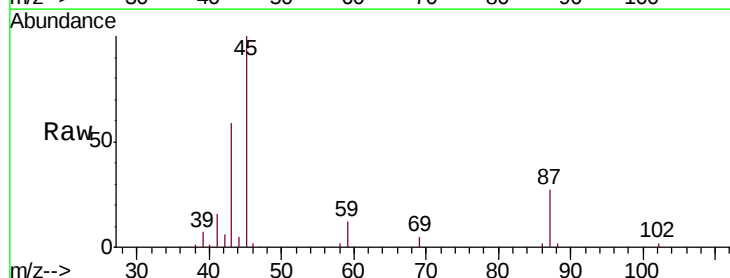
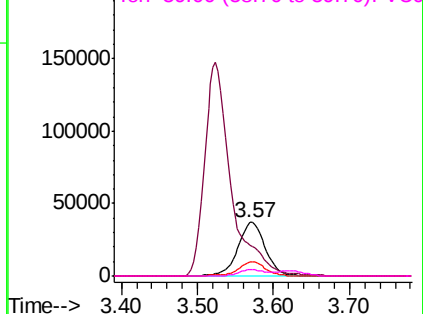
Abundance

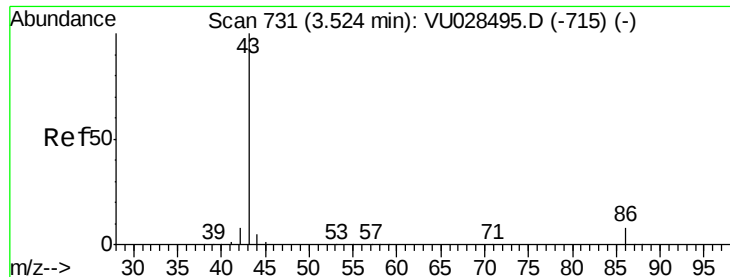
Ion 45.00 (44.70 to 45.70): VU0

Ion 43.00 (42.70 to 43.70): VU0

Ion 87.00 (86.70 to 87.70): VU0

Ion 59.00 (58.70 to 59.70): VU0





#23

Vinyl Acetate

Concen: 77.598 ug/l

RT: 3.52 min Scan# 731

Delta R.T. -0.00 min

Lab File: VU028913.D

Acq: 22 Dec 2018 14:36

Instrument :

MSVOA_U

ClientSampleId :

VU1222MBS02

Tgt Ion: 43 Resp: 358121

Ion Ratio Lower Upper

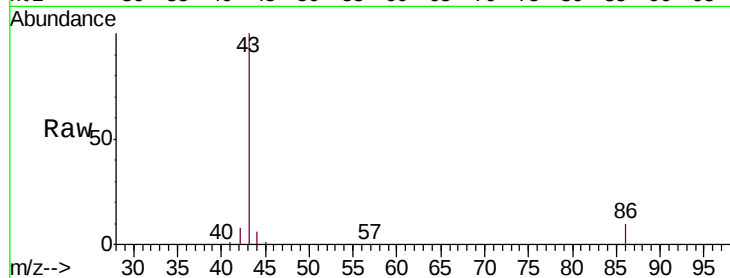
43 100

86 10.4 6.8 10.2#

Manual Integrations
APPROVED

apatel

1/2/2019 10:31:23 AM



Abundance Ion 43.00 (42.70 to 43.70): VU028495.D (-715) (-)

Ion 86.00 (85.70 to 86.70): VU028495.D (-715) (-)

150000

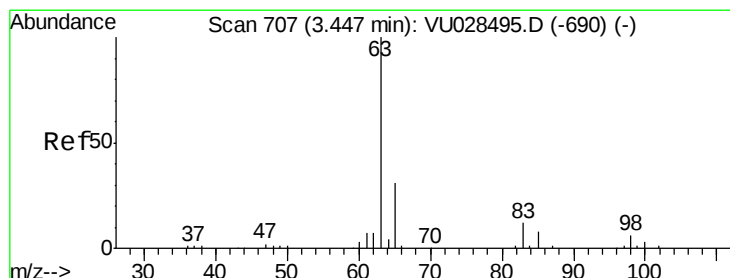
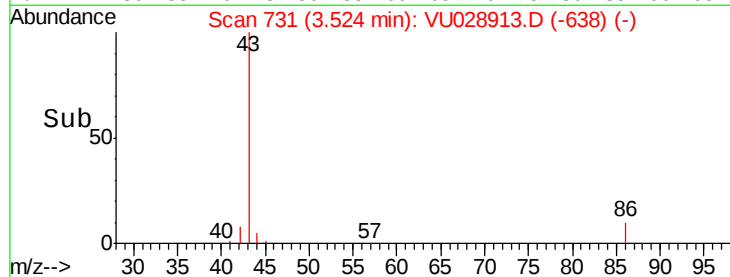
100000

50000

0

3.40 3.50 3.60 3.70

Time-->



#24

1,1-Dichloroethane

Concen: 17.755 ug/l

RT: 3.44 min Scan# 706

Delta R.T. -0.00 min

Lab File: VU028913.D

Acq: 22 Dec 2018 14:36

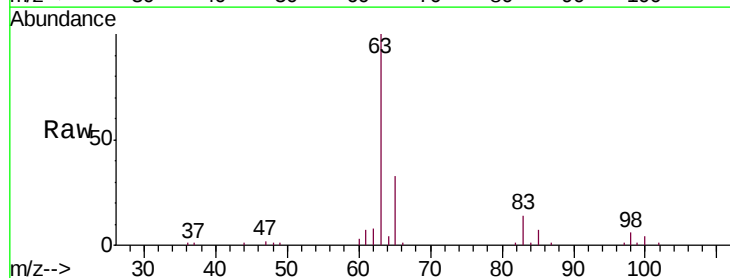
Tgt Ion: 63 Resp: 52002

Ion Ratio Lower Upper

63 100

98 6.2 3.0 9.2

100 4.2 1.7 5.1



Abundance Ion 62.90 (62.60 to 63.60): VU028913.D (-614) (-)

Ion 97.90 (97.60 to 98.60): VU028913.D (-614) (-)

Ion 99.90 (99.60 to 100.60): VU028913.D (-614) (-)

30000

25000

20000

15000

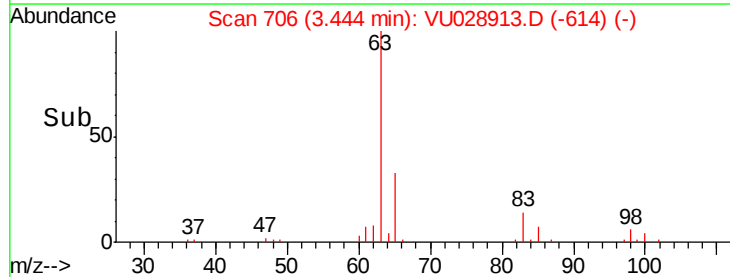
10000

5000

0

3.35 3.40 3.45 3.50 3.55

Time-->





#25

2-Butanone

Concen: 79.282 ug/l

RT: 4.26 min Scan# 960

Delta R.T. 0.00 min

Lab File: VU028913.D

Acq: 22 Dec 2018 14:36

Instrument :

MSVOA_U

ClientSampleId :

VU1222MBS02

Tgt Ion: 43 Resp: 117860

Ion Ratio Lower Upper

43 100

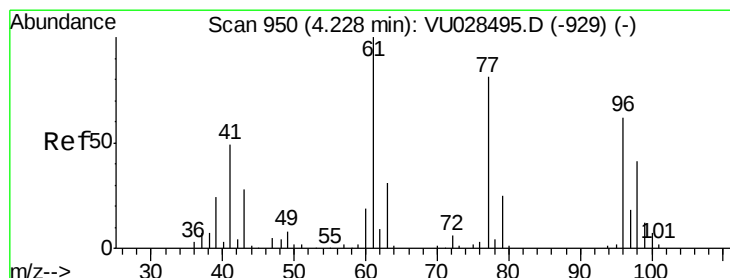
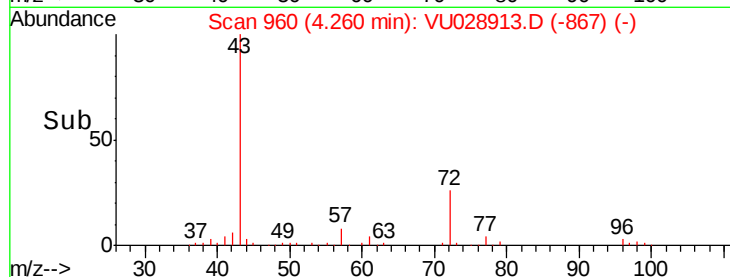
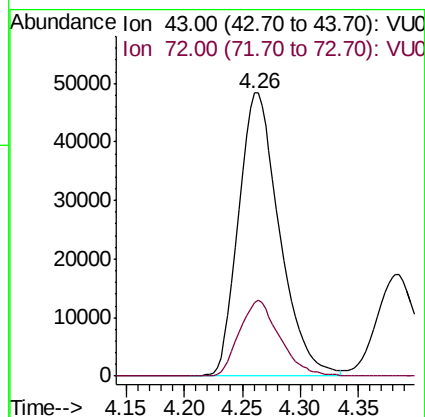
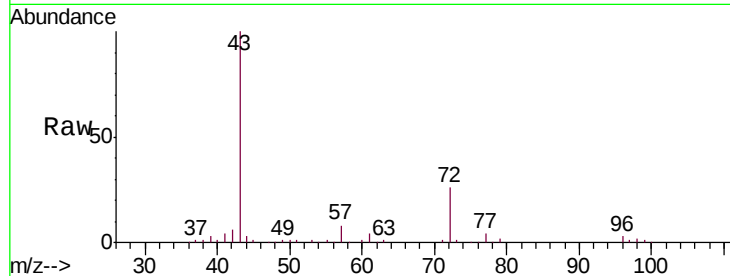
72 25.9 18.6 28.0

Manual Integrations

APPROVED

apatel

1/2/2019 10:31:23 AM



#26

2,2-Dichloropropane

Concen: 16.469 ug/l

RT: 4.22 min Scan# 949

Delta R.T. -0.00 min

Lab File: VU028913.D

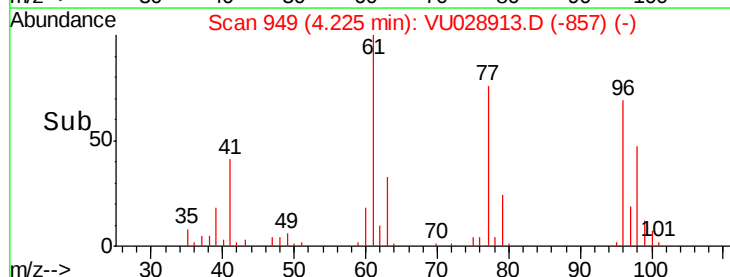
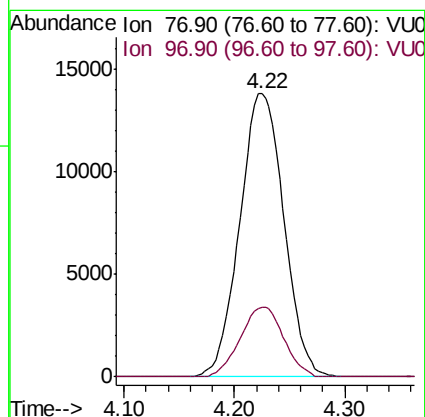
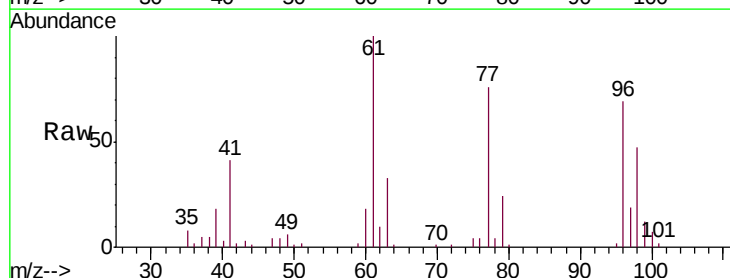
Acq: 22 Dec 2018 14:36

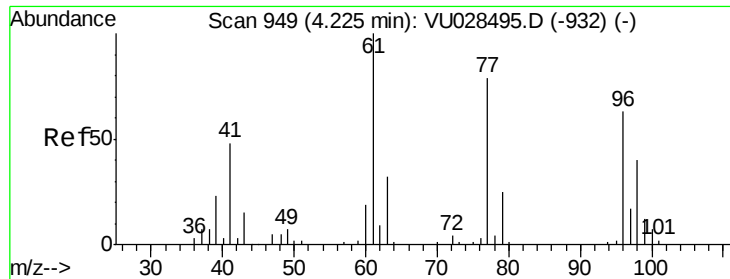
Tgt Ion: 77 Resp: 38219

Ion Ratio Lower Upper

77 100

97 24.3 11.0 33.0





#27

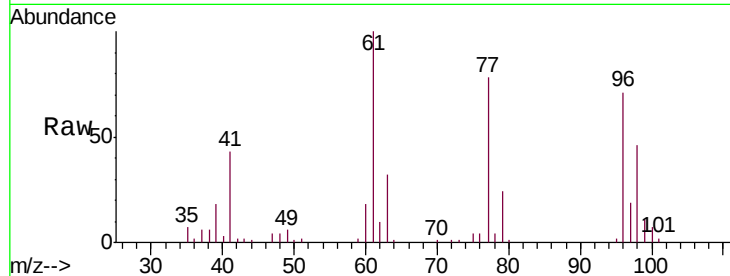
cis-1,2-Dichloroethene
Concen: 19.306 ug/l
RT: 4.22 min Scan# 948
Delta R.T. -0.00 min
Lab File: VU028913.D
Acq: 22 Dec 2018 14:36

Instrument :
MSVOA_U
ClientSampleId :
VU1222MBS02

Tgt Ion	Ratio	Resp	Lower	Upper
96	100	29923		
61	147.4	0.0	332.4	
98	65.6	0.0	129.0	

Manual Integrations
APPROVED

apatel
1/2/2019 10:31:23 AM

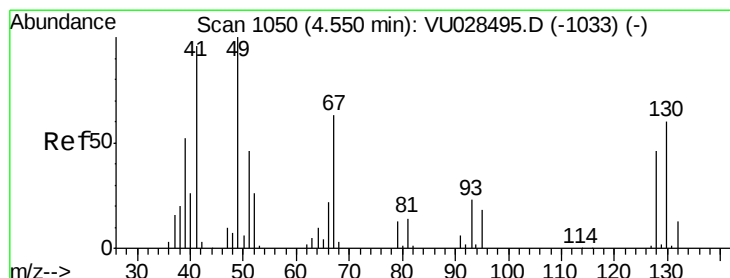
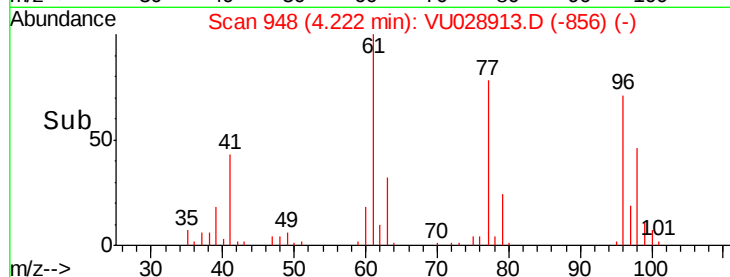
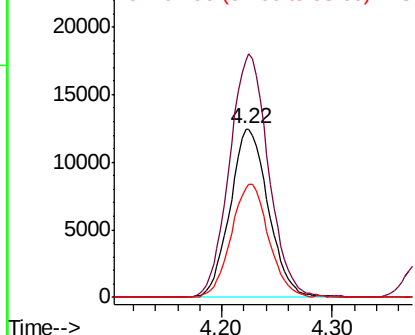


Abundance

Ion 95.90 (95.60 to 96.60): VU0

Ion 60.90 (60.60 to 61.60): VU0

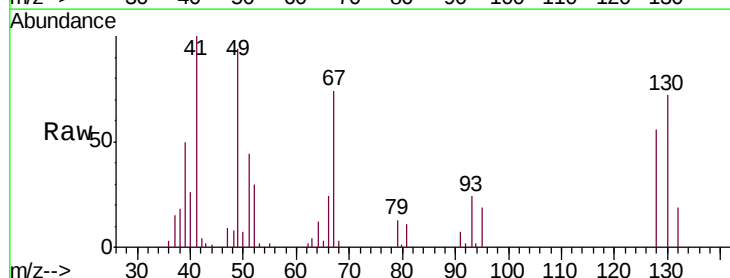
Ion 97.90 (97.60 to 98.60): VU0



#28

Bromochloromethane
Concen: 16.279 ug/l
RT: 4.55 min Scan# 1049
Delta R.T. -0.00 min
Lab File: VU028913.D
Acq: 22 Dec 2018 14:36

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	21674		
129	0.6	0.0	3.0	
130	74.2	47.8	71.8#	

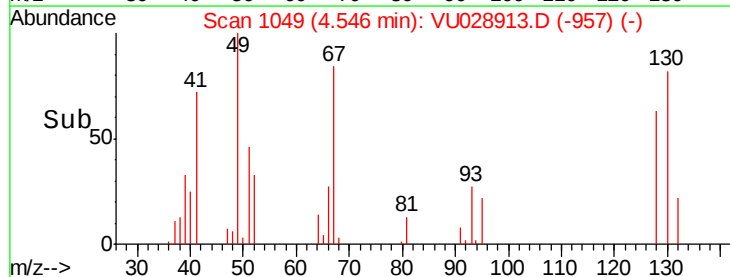
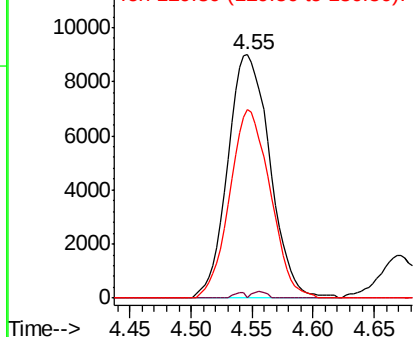


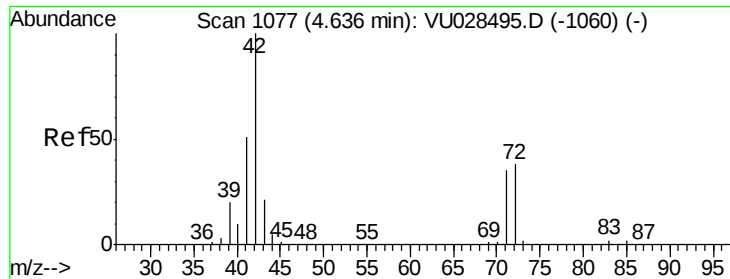
Abundance

Ion 48.90 (48.60 to 49.60): VU0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V





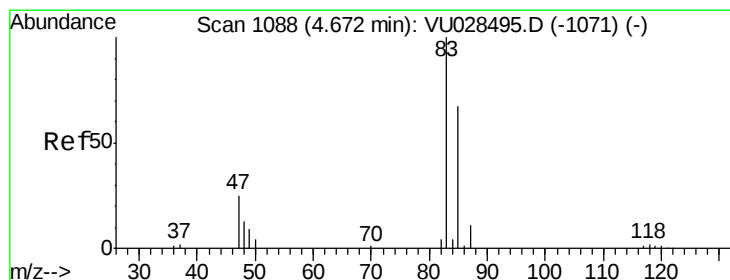
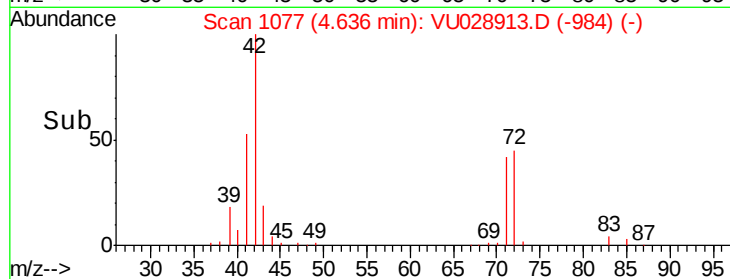
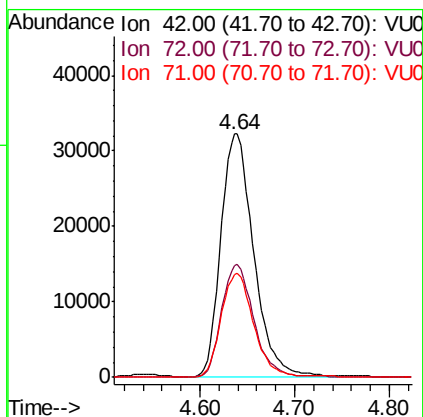
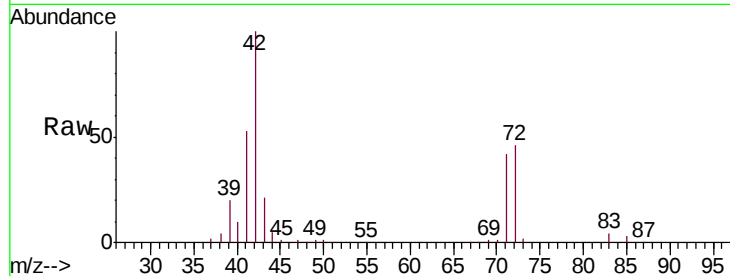
#29
Tetrahydrofuran
Concen: 81.999 ug/l
RT: 4.64 min Scan# 1077
Delta R.T. -0.00 min
Lab File: VU028913.D
Acq: 22 Dec 2018 14:36

Instrument :
MSVOA_U
ClientSampleId :
VU1222MBS02

Tgt Ion	Ratio	Lower	Upper
42	100		
72	45.2	31.4	47.0
71	42.0	28.6	43.0

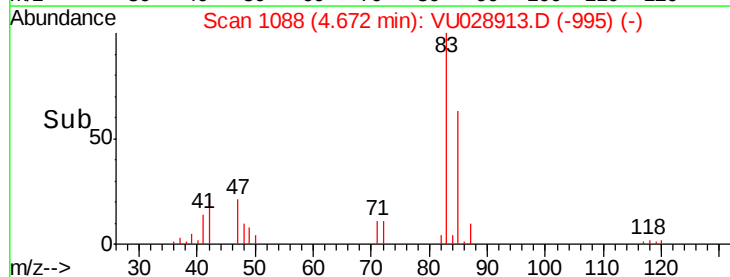
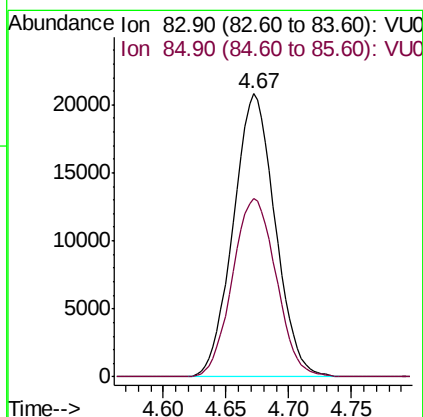
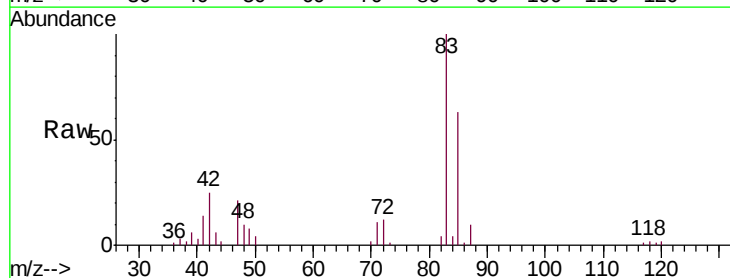
Manual Integrations
APPROVED

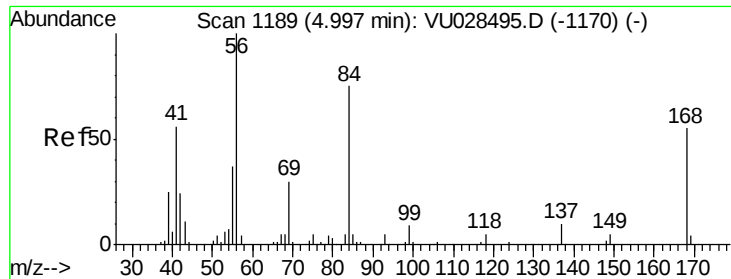
apatel
1/2/2019 10:31:23 AM



#30
Chloroform
Concen: 18.945 ug/l
RT: 4.67 min Scan# 1088
Delta R.T. -0.00 min
Lab File: VU028913.D
Acq: 22 Dec 2018 14:36

Tgt Ion	Ratio	Lower	Upper
83	100		
85	63.1	53.6	80.4





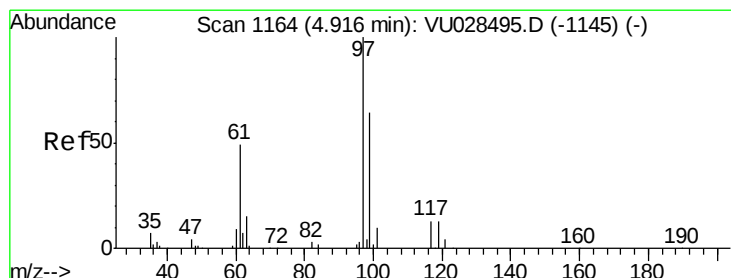
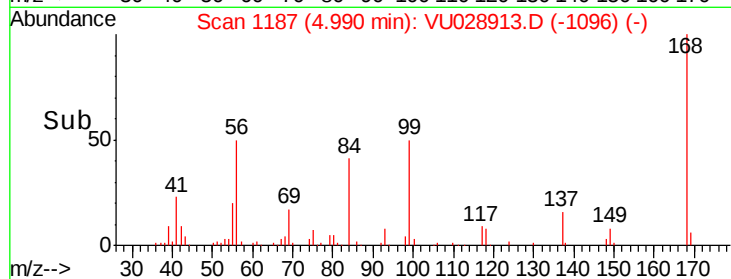
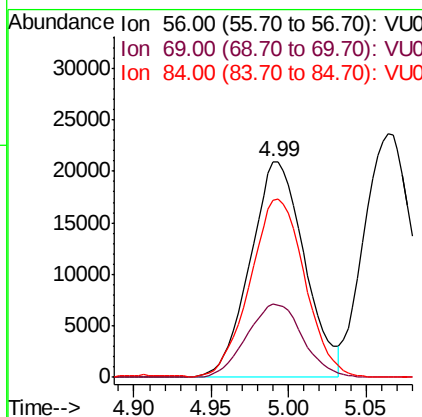
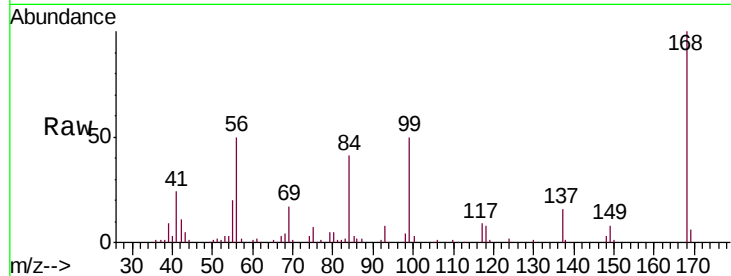
#31
Cyclohexane
Concen: 17.142 ug/l
RT: 4.99 min Scan# 1187
Delta R.T. -0.01 min
Lab File: VU028913.D
Acq: 22 Dec 2018 14:36

Instrument :
MSVOA_U
ClientSampleId :
VU1222MBS02

Tgt Ion	Ratio	Lower	Upper
56	100		
69	33.7	24.0	36.0
84	82.2	59.7	89.5

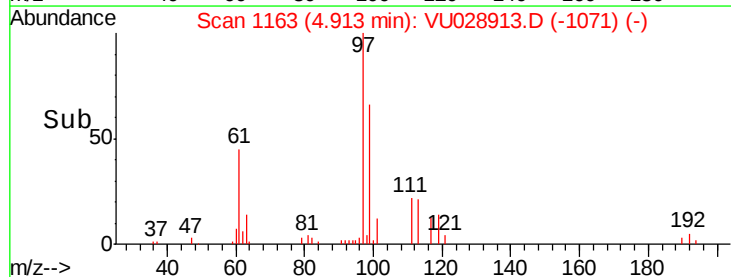
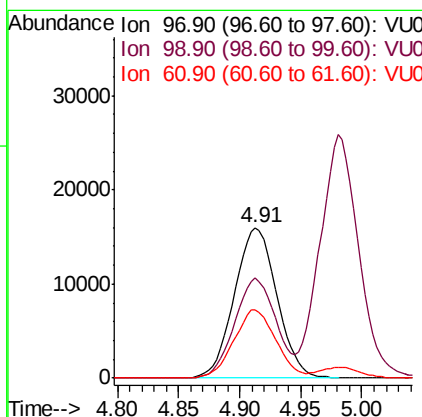
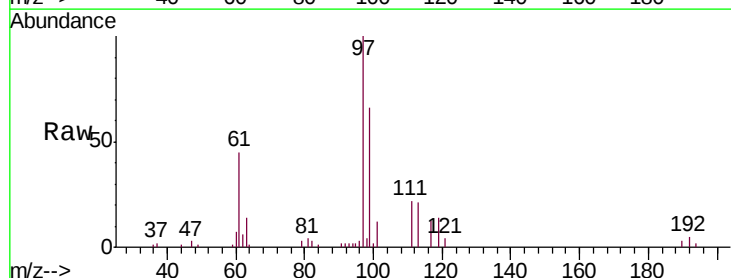
Manual Integrations
APPROVED

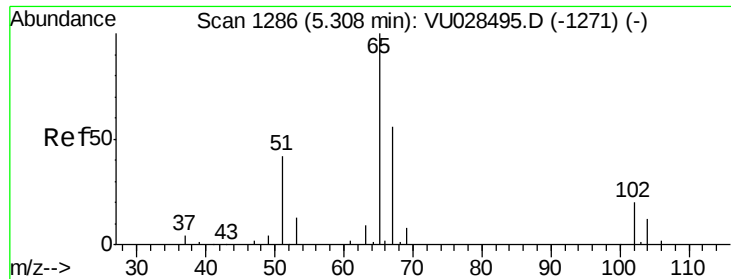
apatel
1/2/2019 10:31:23 AM



#32
1,1,1-Trichloroethane
Concen: 18.167 ug/l
RT: 4.91 min Scan# 1163
Delta R.T. -0.00 min
Lab File: VU028913.D
Acq: 22 Dec 2018 14:36

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.9	52.3	78.5
61	45.0	39.0	58.6





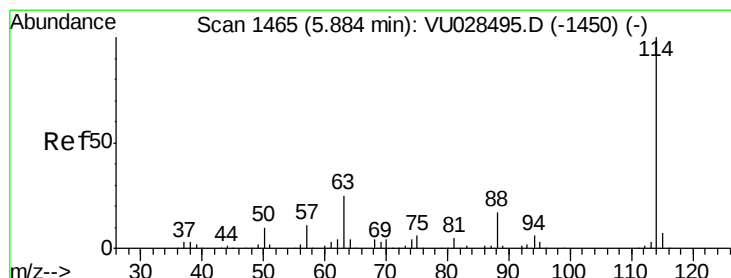
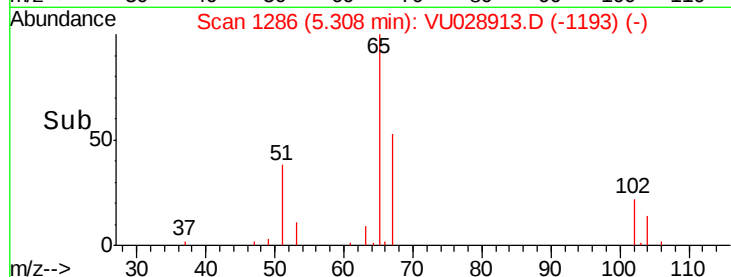
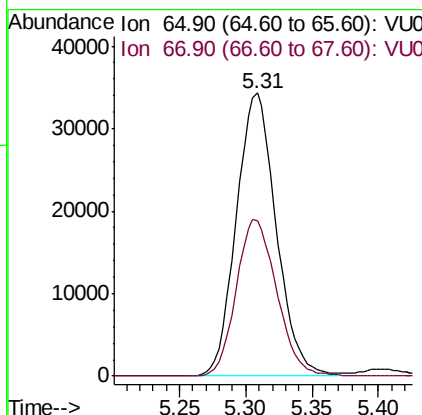
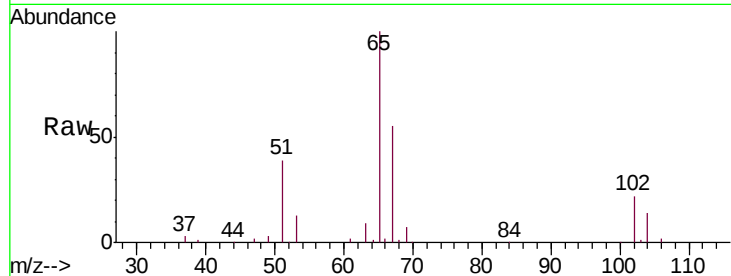
#33
 1,2-Dichloroethane-d4
 Concen: 43.108 ug/l
 RT: 5.31 min Scan# 1286
 Delta R.T. -0.00 min
 Lab File: VU028913.D
 Acq: 22 Dec 2018 14:36

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1222MBS02

Tgt Ion	Ratio	Lower	Upper
65	100		
67	56.1	0.0	110.6

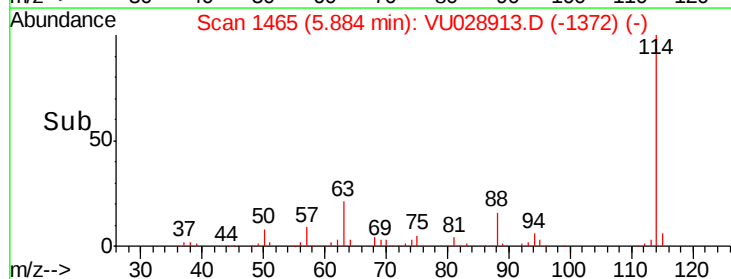
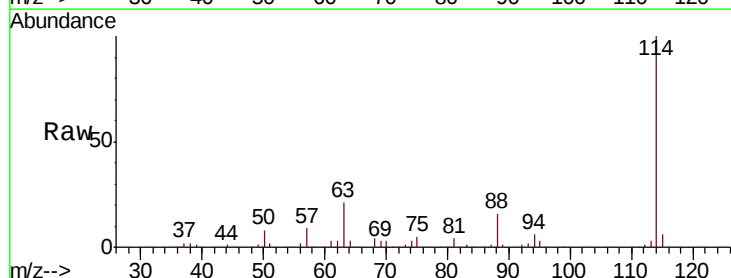
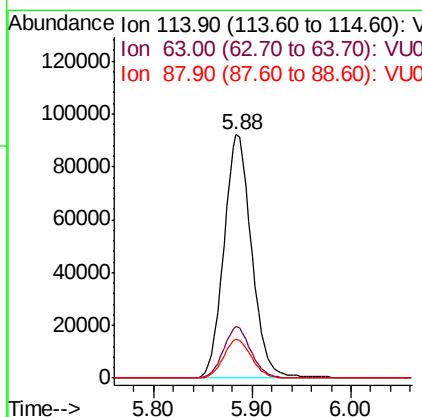
Manual Integrations
 APPROVED

apatel
 1/2/2019 10:31:23 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.88 min Scan# 1465
 Delta R.T. 0.00 min
 Lab File: VU028913.D
 Acq: 22 Dec 2018 14:36

Tgt Ion	Ratio	Lower	Upper
114	100		
63	21.2	0.0	49.2
88	16.0	0.0	33.4





#35

Dibromofluoromethane

Concen: 52.561 ug/l

RT: 4.88 min Scan# 1153

Delta R.T. -0.00 min

Lab File: VU028913.D

Acq: 22 Dec 2018 14:36

Instrument :

MSVOA_U

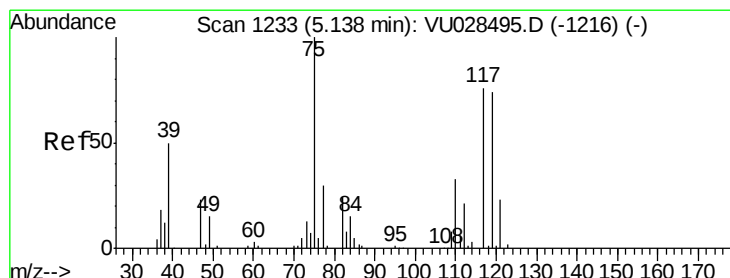
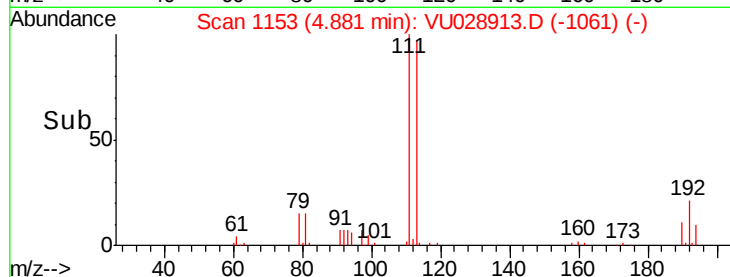
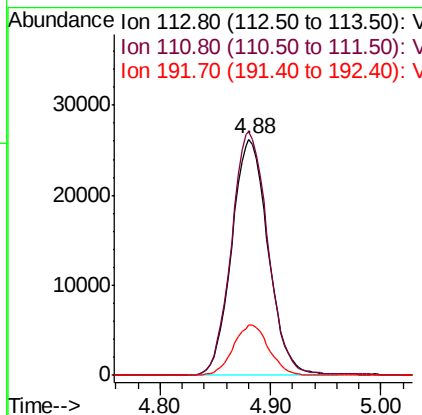
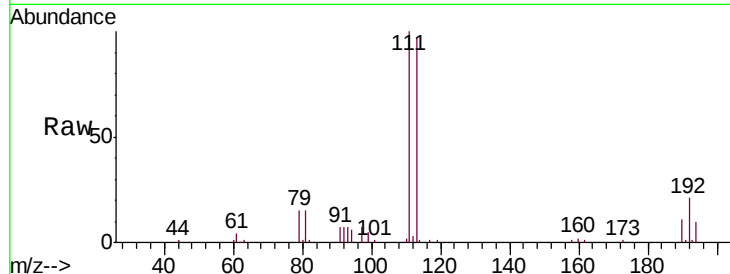
ClientSampleId :

VU1222MBS02

Tgt Ion:	113	Resp:	60033
Ion Ratio	Lower	Upper	
113	100		
111	103.2	83.4	125.0
192	20.8	14.8	22.2

Manual Integrations
APPROVED

apatel
1/2/2019 10:31:23 AM



#36

1,1-Dichloropropene

Concen: 18.389 ug/l

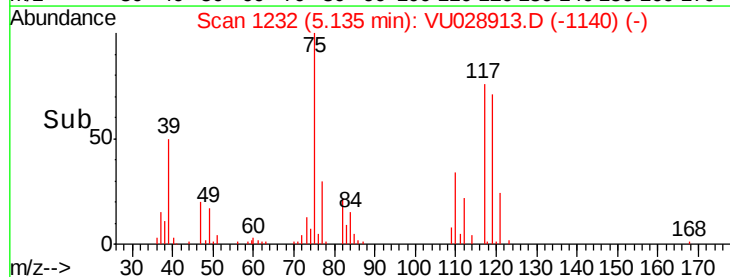
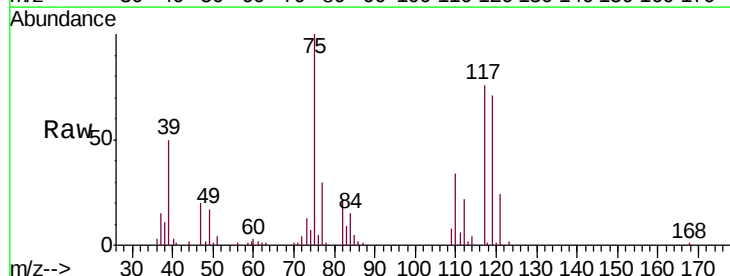
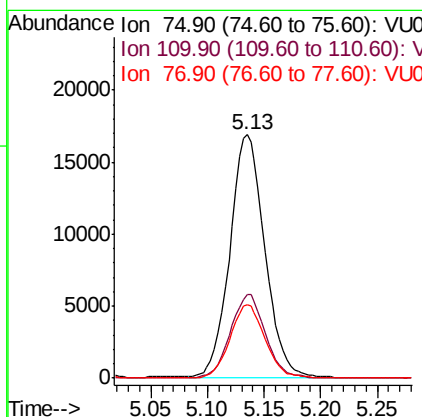
RT: 5.13 min Scan# 1232

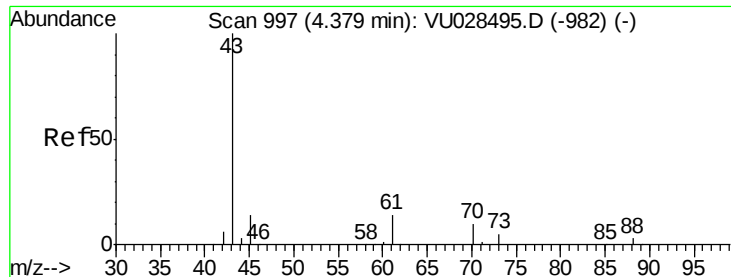
Delta R.T. -0.00 min

Lab File: VU028913.D

Acq: 22 Dec 2018 14:36

Tgt Ion:	75	Resp:	36522
Ion Ratio	Lower	Upper	
75	100		
110	34.2	16.1	48.2
77	30.1	24.5	36.7





#37

Ethyl Acetate

Concen: 16.864 ug/l

RT: 4.38 min Scan# 998

Delta R.T. 0.00 min

Lab File: VU028913.D

Acq: 22 Dec 2018 14:36

Instrument :

MSVOA_U

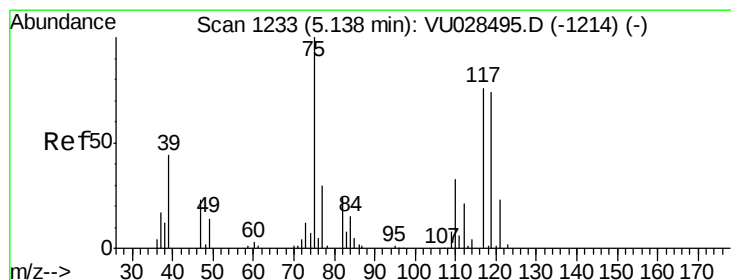
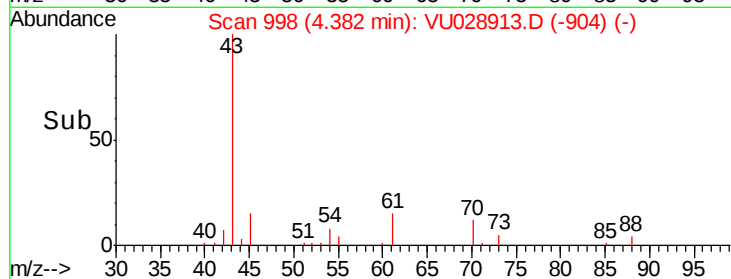
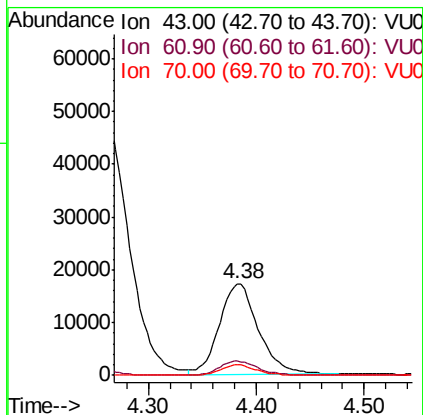
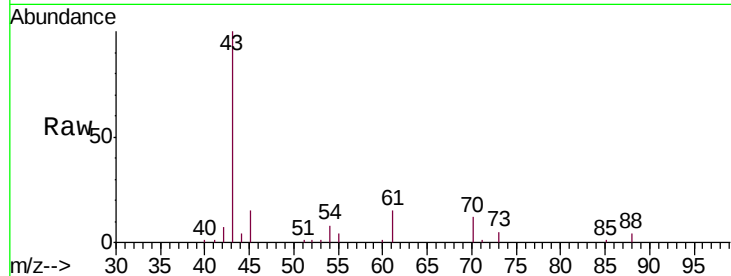
ClientSampleId :

VU1222MBS02

Tgt Ion:	43	Resp:	43297
Ion	Ratio	Lower	Upper
43	100		
61	15.4	11.0	16.4
70	10.3	7.4	11.0

Manual Integrations
APPROVED

apatel
1/2/2019 10:31:23 AM



#38

Carbon Tetrachloride

Concen: 19.166 ug/l

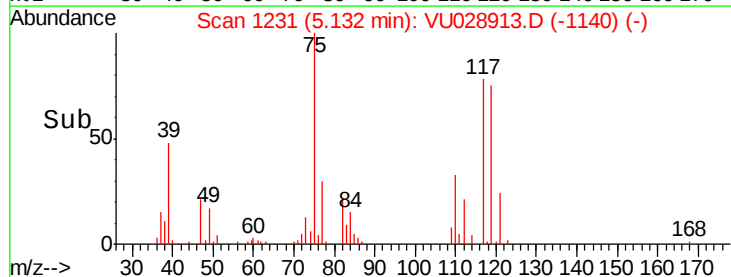
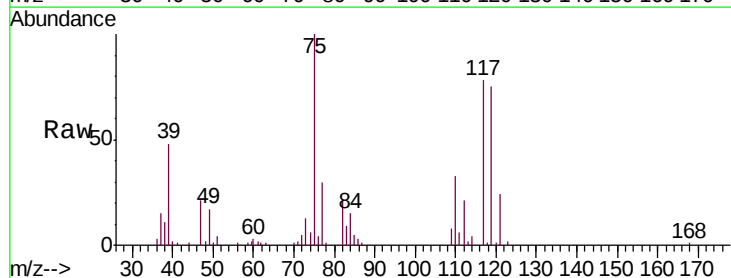
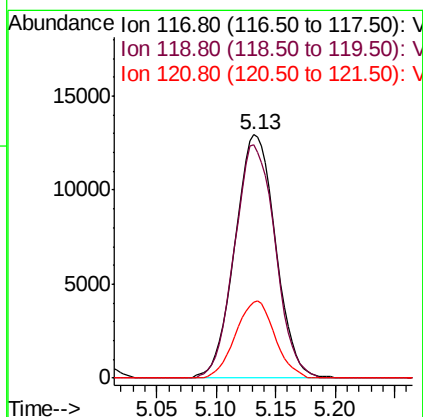
RT: 5.13 min Scan# 1231

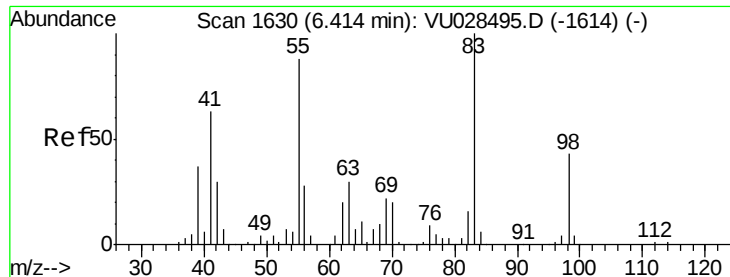
Delta R.T. -0.01 min

Lab File: VU028913.D

Acq: 22 Dec 2018 14:36

Tgt Ion:	117	Resp:	30680
Ion	Ratio	Lower	Upper
117	100		
119	95.9	77.6	116.4
121	31.3	24.6	36.8





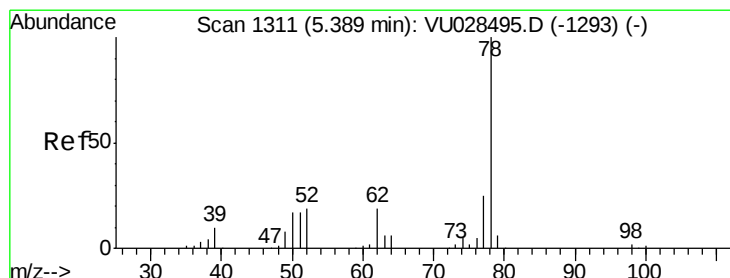
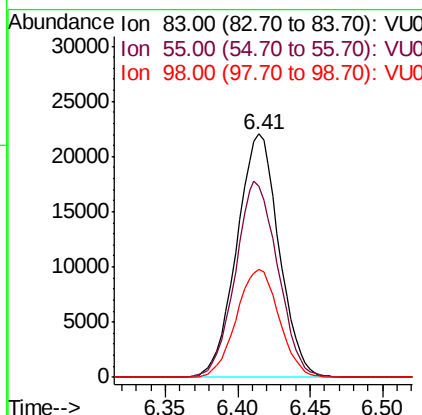
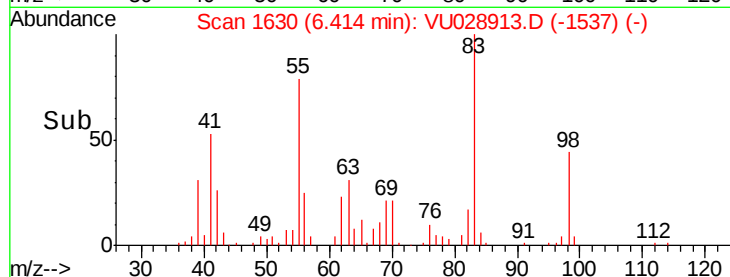
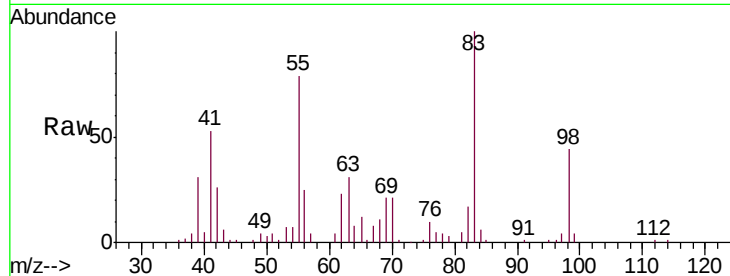
#39
Methylcyclohexane
Concen: 18.366 ug/l
RT: 6.41 min Scan# 1630
Delta R.T. -0.00 min
Lab File: VU028913.D
Acq: 22 Dec 2018 14:36

Instrument :
MSVOA_U
ClientSampleId :
VU1222MBS02

Tgt Ion: 83 Resp: 44501
Ion Ratio Lower Upper
83 100
55 78.6 70.2 105.2
98 44.4 34.2 51.4

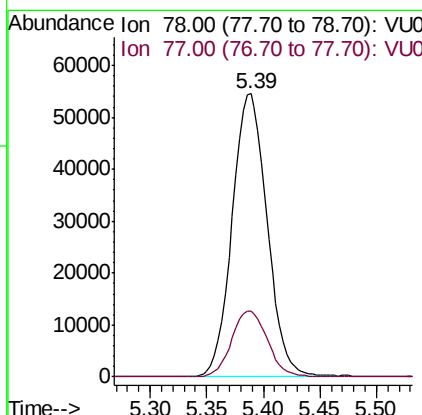
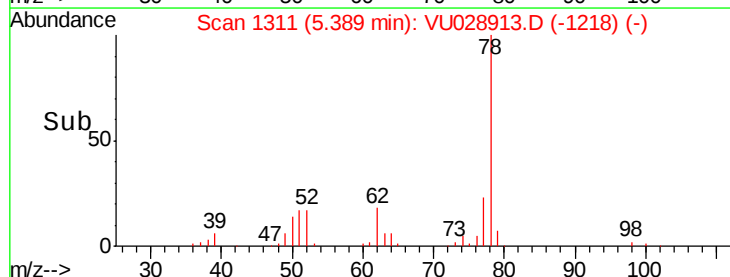
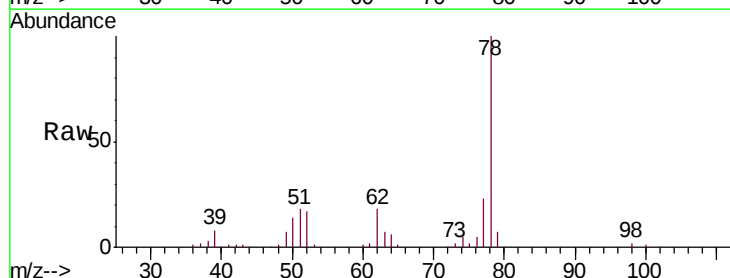
Manual Integrations
APPROVED

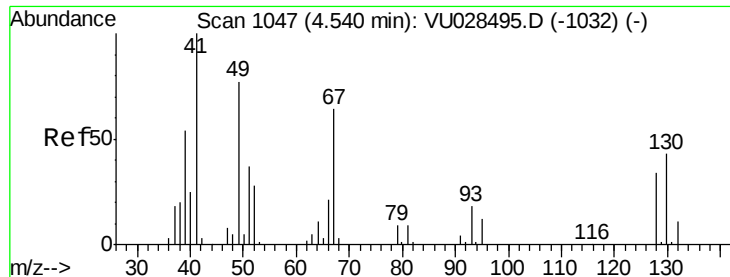
apatel
1/2/2019 10:31:23 AM



#40
Benzene
Concen: 20.073 ug/l
RT: 5.39 min Scan# 1311
Delta R.T. -0.00 min
Lab File: VU028913.D
Acq: 22 Dec 2018 14:36

Tgt Ion: 78 Resp: 117417
Ion Ratio Lower Upper
78 100
77 23.2 19.9 29.9





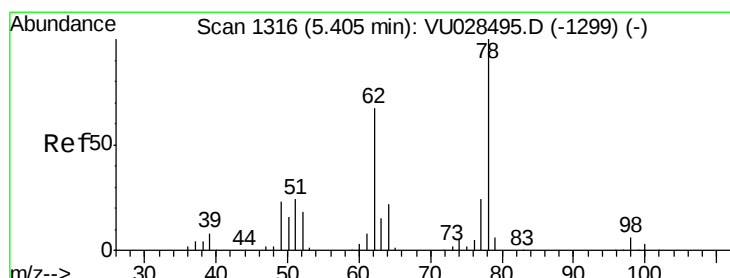
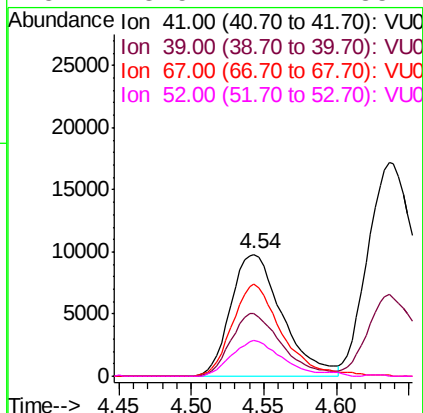
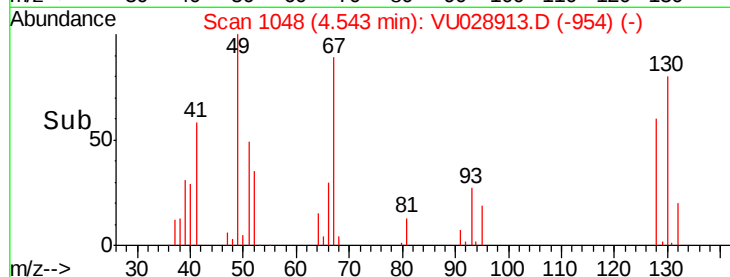
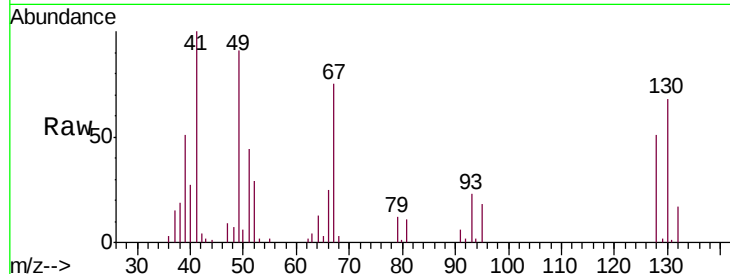
#41
Methacrylonitrile
Concen: 17.217 ug/l
RT: 4.54 min Scan# 1048
Delta R.T. 0.00 min
Lab File: VU028913.D
Acq: 22 Dec 2018 14:36

Instrument :
MSVOA_U
ClientSampled :
VU1222MBS02

Tgt Ion	Ratio	Lower	Upper
41	100		
39	50.5	43.3	64.9
67	72.4	53.6	80.4
52	28.5	22.1	33.1

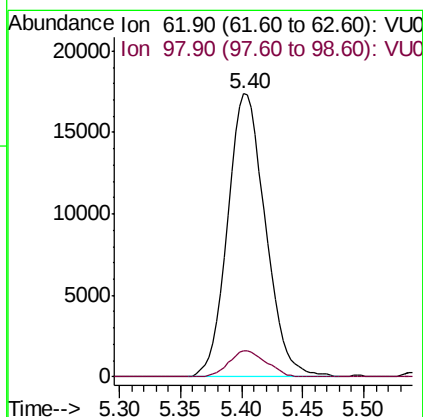
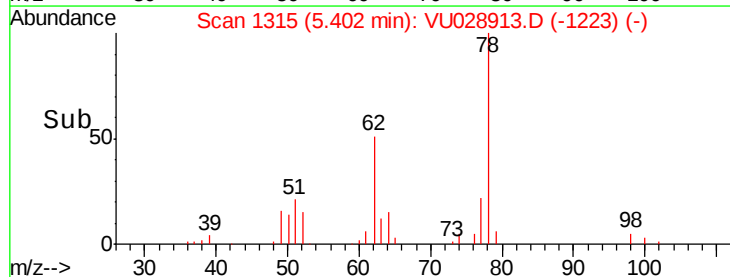
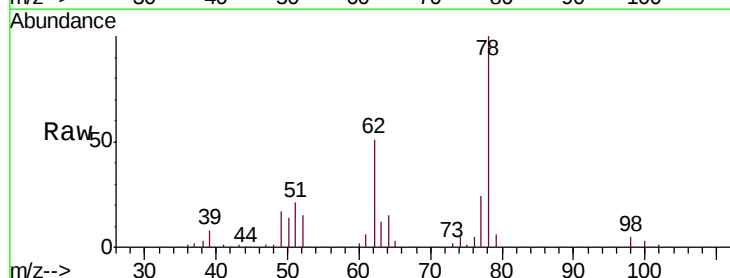
Manual Integrations
APPROVED

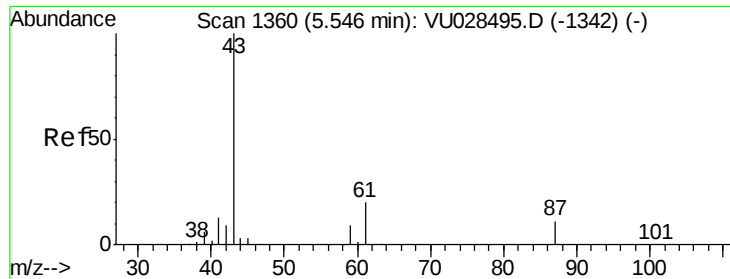
apatel
1/2/2019 10:31:23 AM



#42
1,2-Dichloroethane
Concen: 18.371 ug/l
RT: 5.40 min Scan# 1315
Delta R.T. -0.00 min
Lab File: VU028913.D
Acq: 22 Dec 2018 14:36

Tgt Ion	Ratio	Lower	Upper
62	100		
98	9.0	0.0	17.2





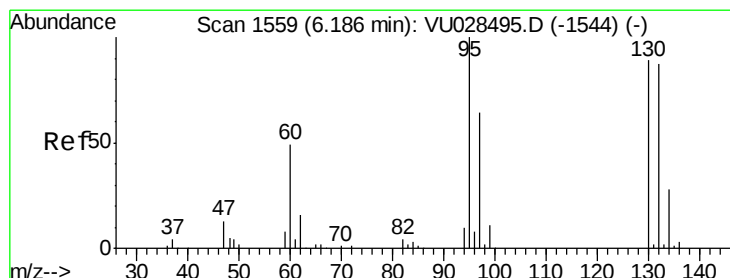
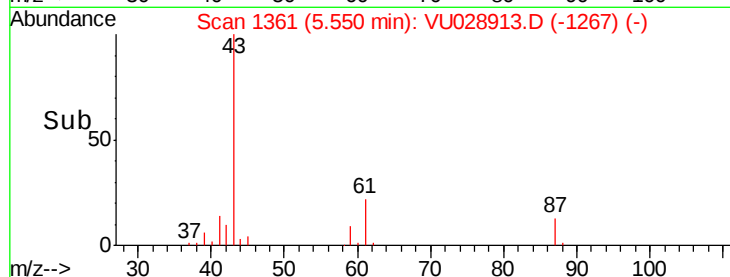
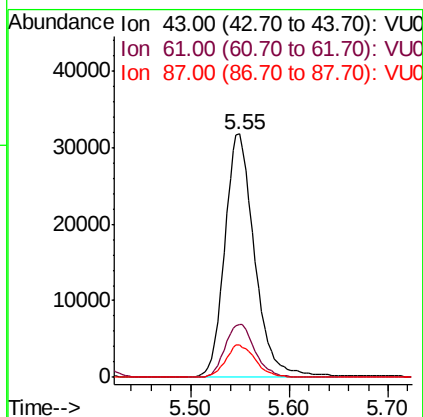
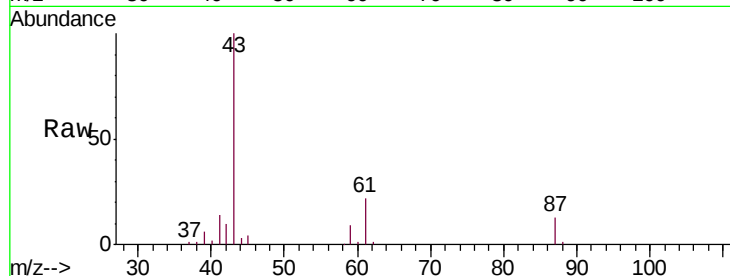
#43
Isopropyl Acetate
Concen: 16.607 ug/l
RT: 5.55 min Scan# 1361
Delta R.T. 0.00 min
Lab File: VU028913.D
Acq: 22 Dec 2018 14:36

Instrument :
MSVOA_U
ClientSampleId :
VU1222MBS02

Tgt Ion	Ratio	Lower	Upper
43	100		
61	21.6	15.5	23.3
87	13.3	8.7	13.1

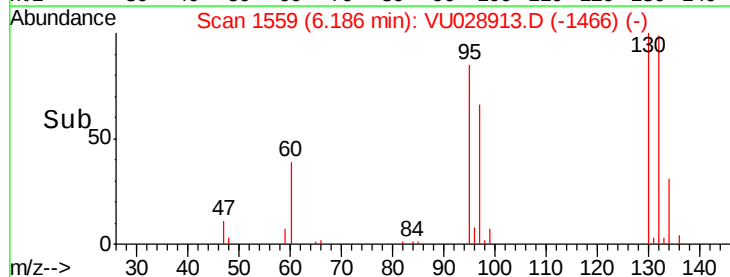
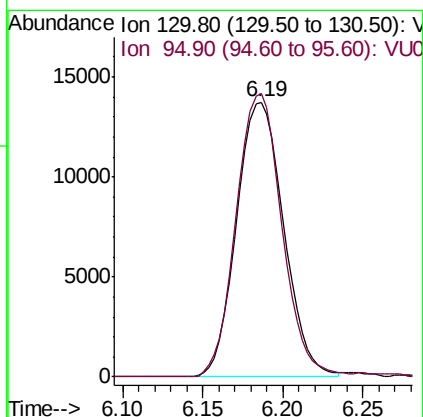
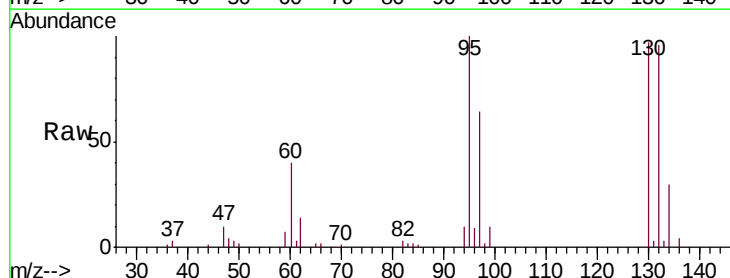
Manual Integrations
APPROVED

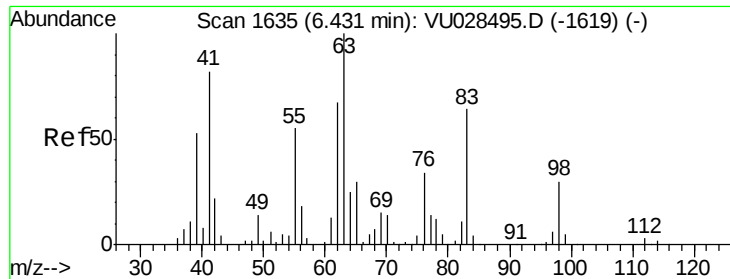
apatel
1/2/2019 10:31:23 AM



#44
Trichloroethene
Concen: 21.268 ug/l
RT: 6.19 min Scan# 1559
Delta R.T. 0.00 min
Lab File: VU028913.D
Acq: 22 Dec 2018 14:36

Tgt Ion	Ratio	Lower	Upper
130	100		
95	103.0	0.0	224.0





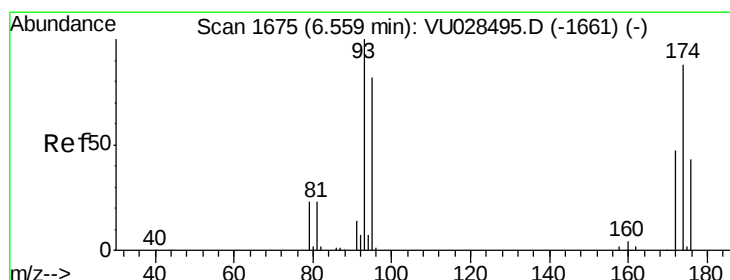
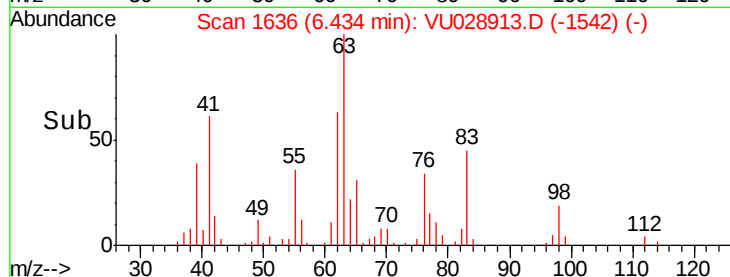
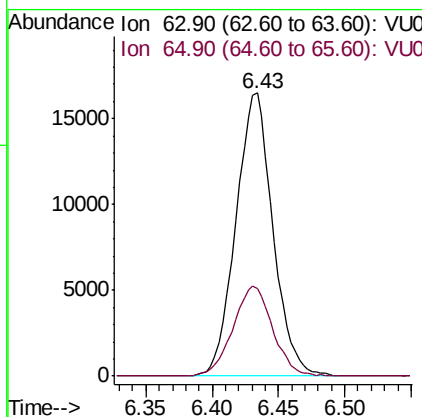
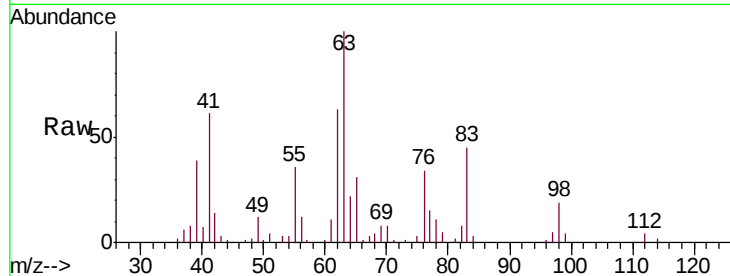
#45
 1,2-Dichloropropane
 Concen: 19.423 ug/l
 RT: 6.43 min Scan# 1636
 Delta R.T. 0.00 min
 Lab File: VU028913.D
 Acq: 22 Dec 2018 14:36

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1222MBS02

Tgt Ion: 63 Resp: 31949
 Ion Ratio Lower Upper
 63 100
 65 30.9 24.2 36.4

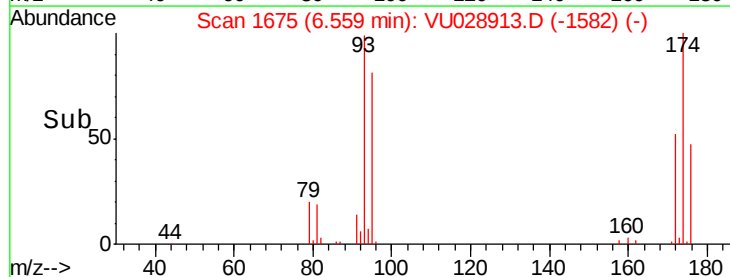
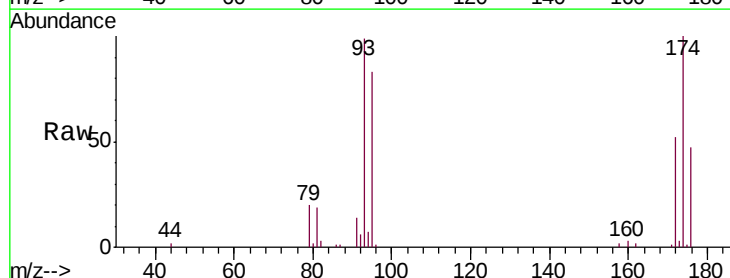
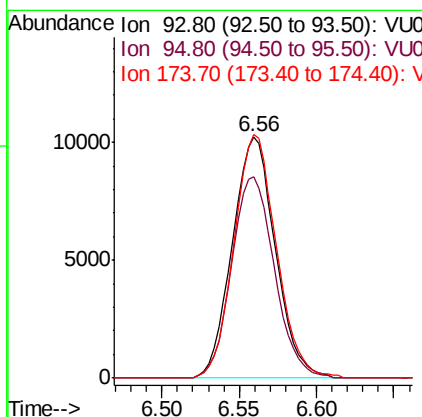
Manual Integrations
 APPROVED

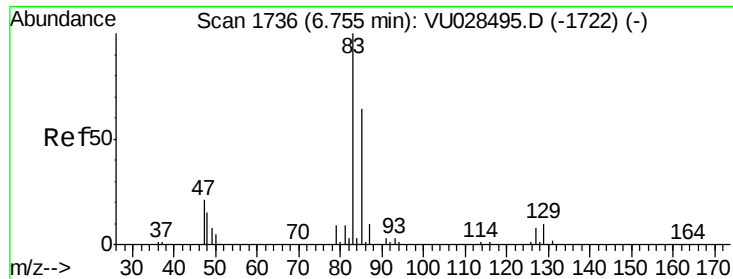
apatel
 1/2/2019 10:31:23 AM



#46
 Dibromomethane
 Concen: 20.247 ug/l
 RT: 6.56 min Scan# 1675
 Delta R.T. -0.00 min
 Lab File: VU028913.D
 Acq: 22 Dec 2018 14:36

Tgt Ion: 93 Resp: 19761
 Ion Ratio Lower Upper
 93 100
 95 83.1 65.4 98.2
 174 99.5 72.2 108.4





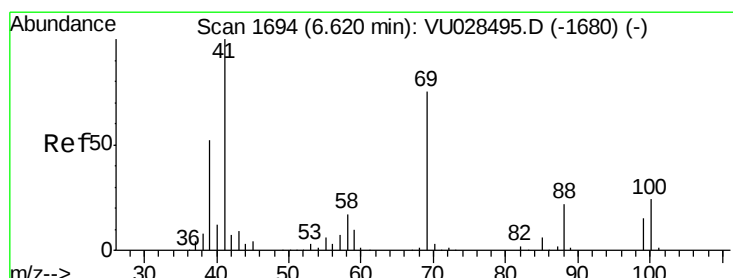
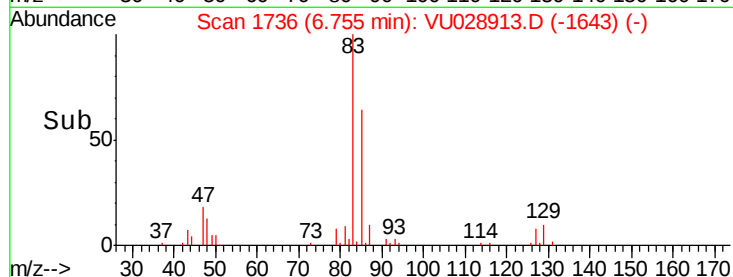
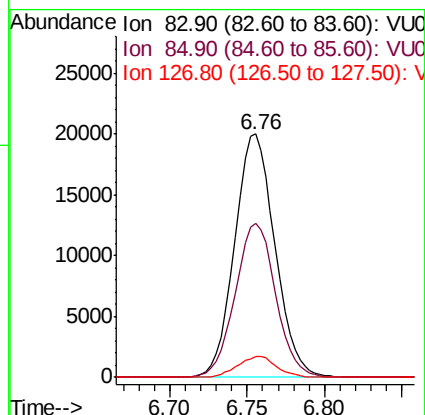
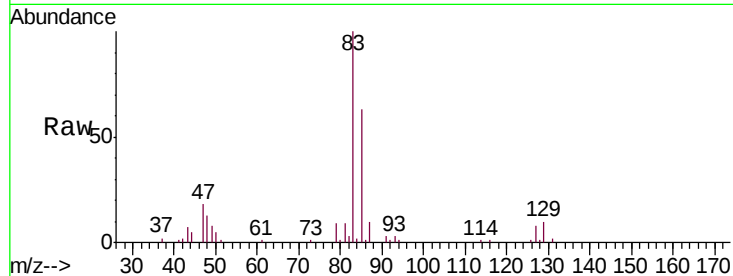
#47
Bromodichloromethane
Concen: 19.003 ug/l
RT: 6.76 min Scan# 1736
Delta R.T. -0.00 min
Lab File: VU028913.D
Acq: 22 Dec 2018 14:36

Instrument :
MSVOA_U
ClientSampleId :
VU1222MBS02

Tgt Ion	Ratio	Resp	Lower	Upper
83	100	36091		
85	63.1	51.5	77.3	
127	8.3	6.2	9.4	

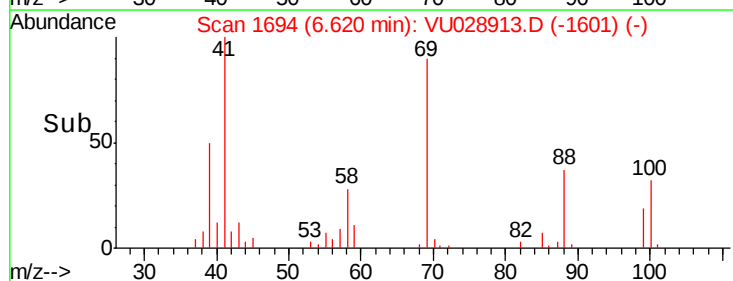
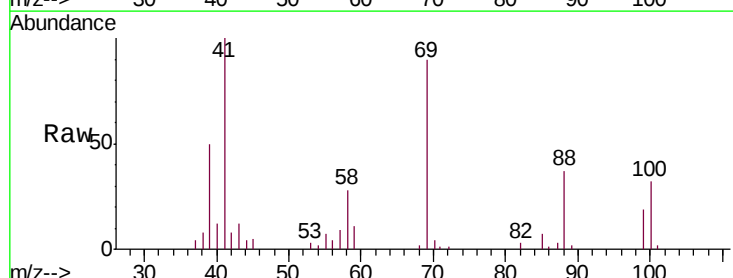
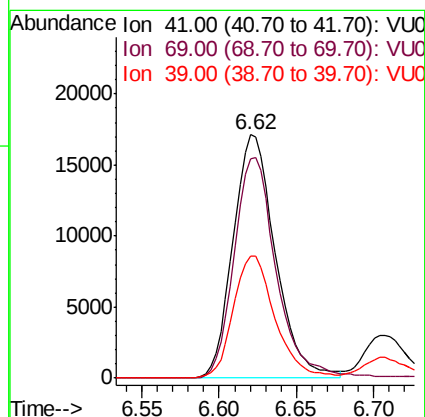
Manual Integrations
APPROVED

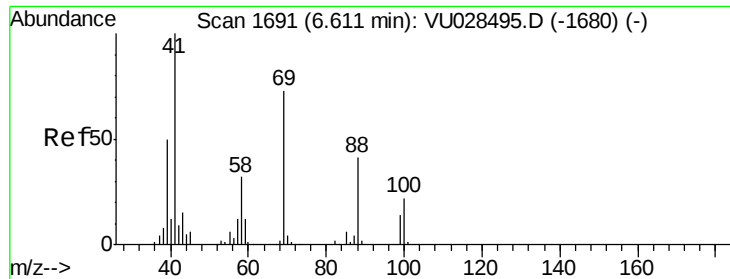
apatel
1/2/2019 10:31:23 AM



#48
Methyl methacrylate
Concen: 16.116 ug/l
RT: 6.62 min Scan# 1694
Delta R.T. 0.00 min
Lab File: VU028913.D
Acq: 22 Dec 2018 14:36

Tgt Ion	Ratio	Resp	Lower	Upper
41	100	32547		
69	91.1	60.4	90.6#	
39	49.6	41.1	61.7	





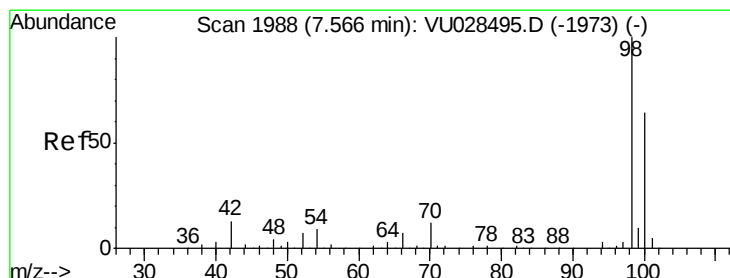
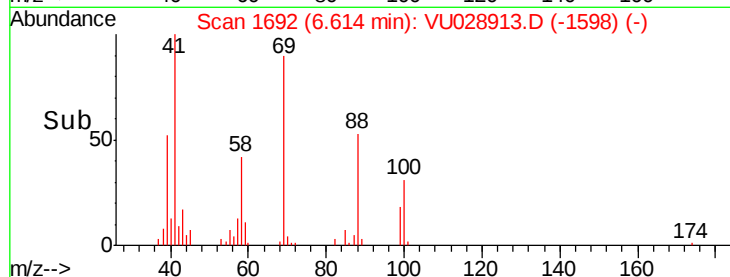
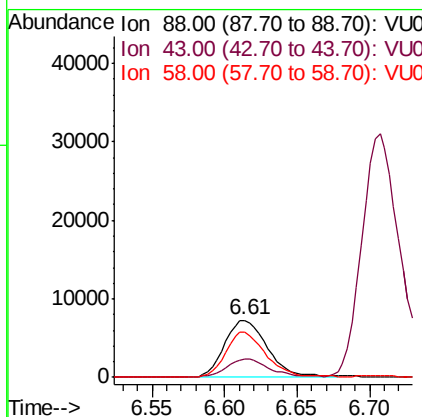
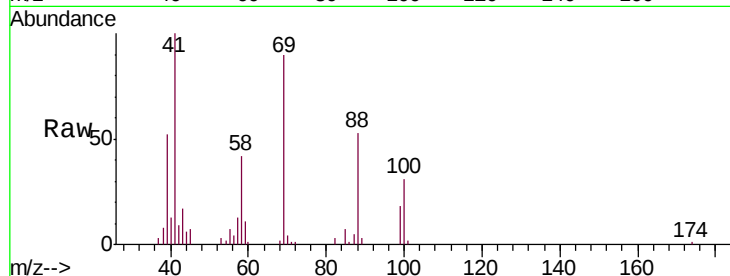
#49
1,4-Dioxane
Concen: 470.535 ug/l
RT: 6.61 min Scan# 1692
Delta R.T. 0.00 min
Lab File: VU028913.D
Acq: 22 Dec 2018 14:36

Instrument :
MSVOA_U
ClientSampleId :
VU1222MBS02

Tgt Ion	Ratio	Resp	Lower	Upper
88	100	15004		
43	32.4	30.9	46.3	
58	74.6	62.4	93.6	

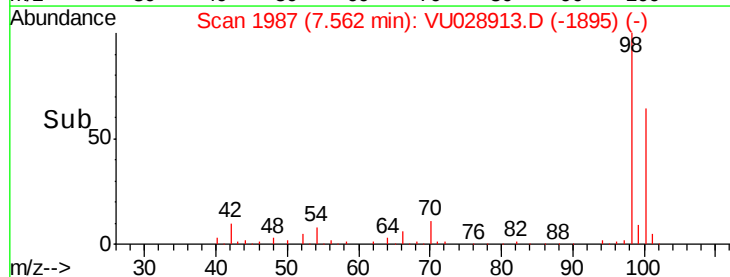
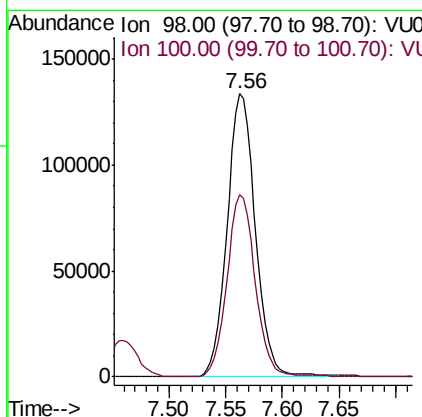
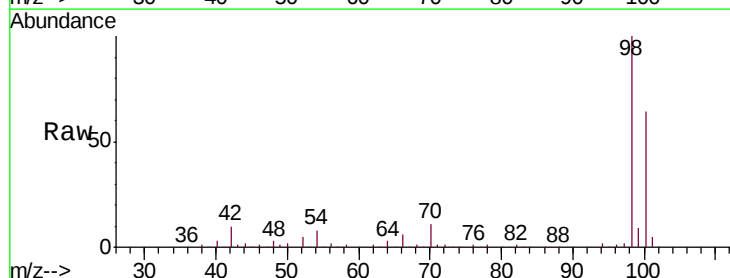
Manual Integrations
APPROVED

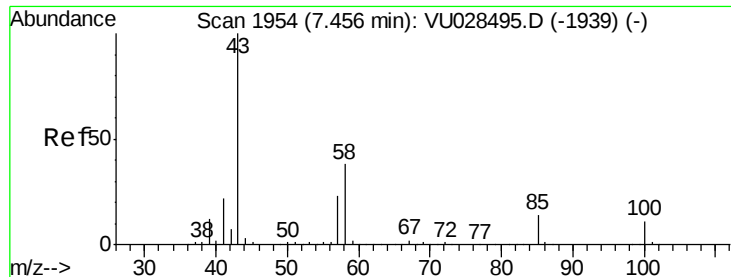
apatel
1/2/2019 10:31:23 AM



#50
Toluene-d8
Concen: 51.616 ug/l
RT: 7.56 min Scan# 1987
Delta R.T. -0.00 min
Lab File: VU028913.D
Acq: 22 Dec 2018 14:36

Tgt Ion	Ratio	Resp	Lower	Upper
98	100	233212		
100	63.7	51.0	76.6	





#51

4-Methyl-2-Pentanone

Concen: 83.822 ug/l

RT: 7.46 min Scan# 1955

Delta R.T. 0.00 min

Lab File: VU028913.D

Acq: 22 Dec 2018 14:36

Instrument :

MSVOA_U

ClientSampleId :

VU1222MBS02

Tgt Ion: 43 Resp: 214690

Ion Ratio Lower Upper

43 100

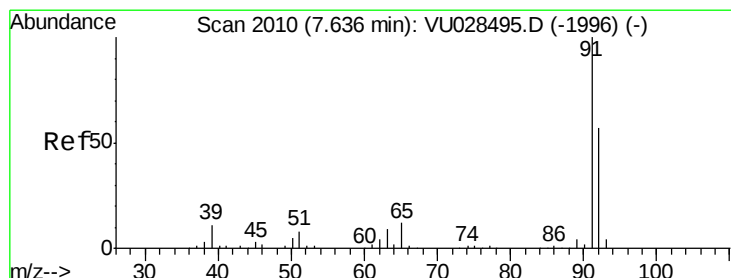
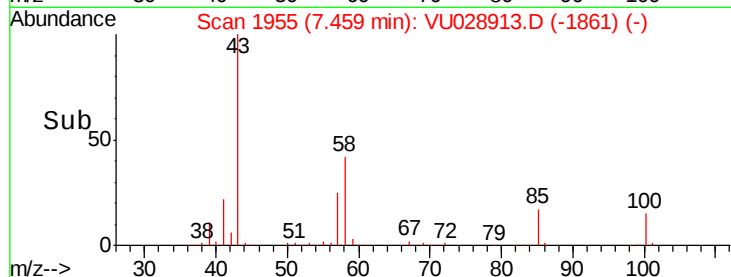
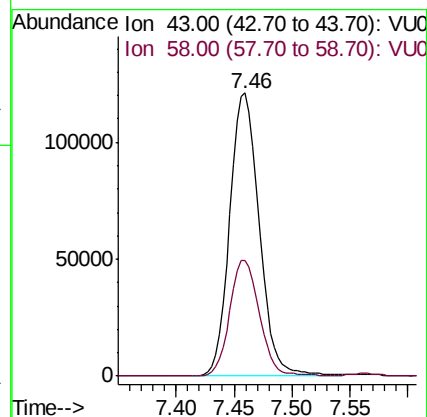
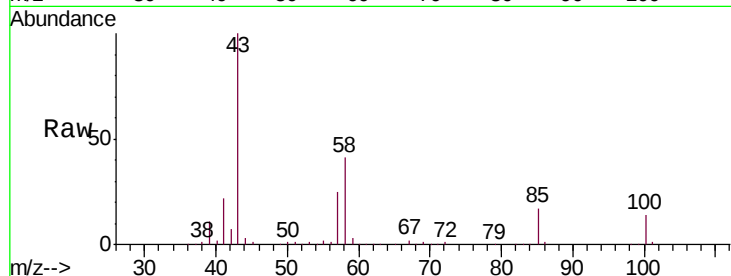
58 41.2 30.2 45.2

Manual Integrations

APPROVED

apatel

1/2/2019 10:31:23 AM



#52

Toluene

Concen: 20.374 ug/l

RT: 7.64 min Scan# 2010

Delta R.T. -0.00 min

Lab File: VU028913.D

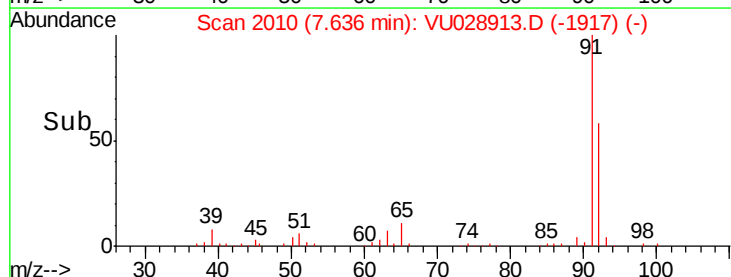
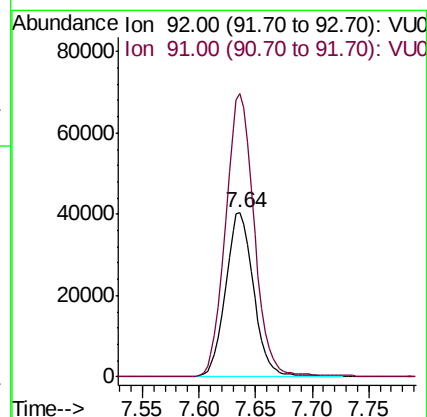
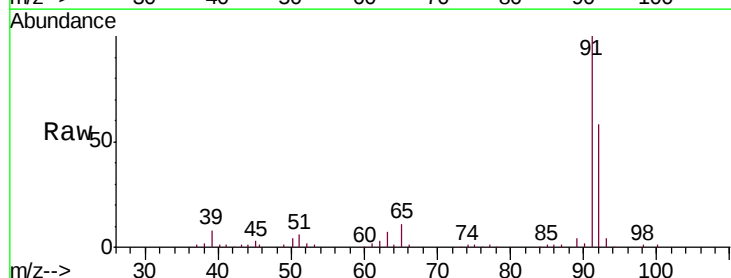
Acq: 22 Dec 2018 14:36

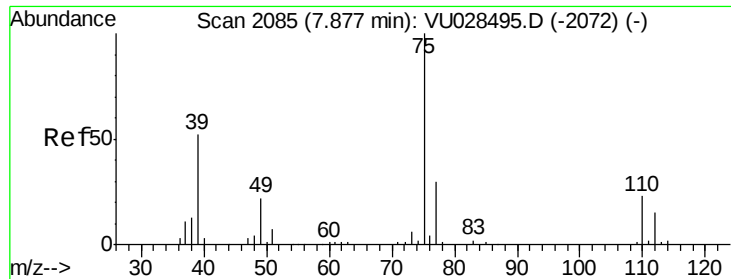
Tgt Ion: 92 Resp: 70137

Ion Ratio Lower Upper

92 100

91 174.7 140.2 210.4





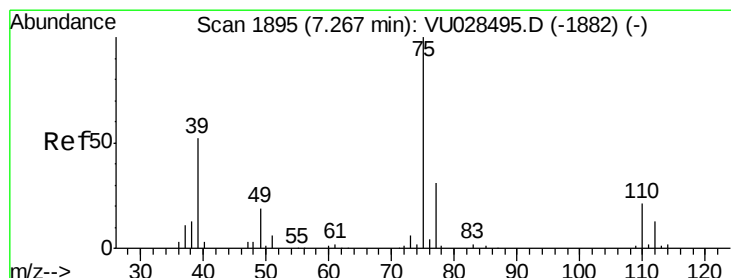
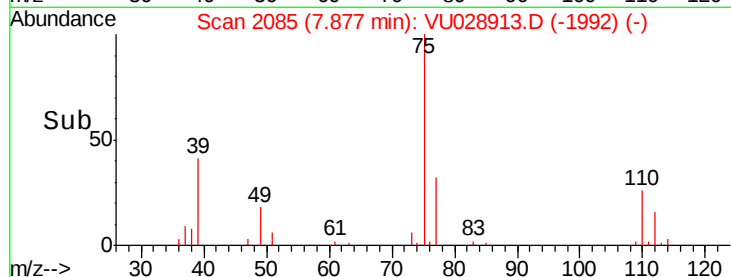
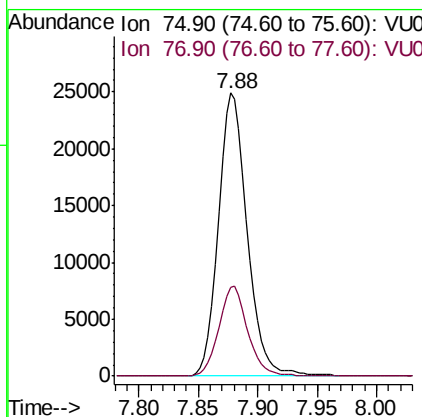
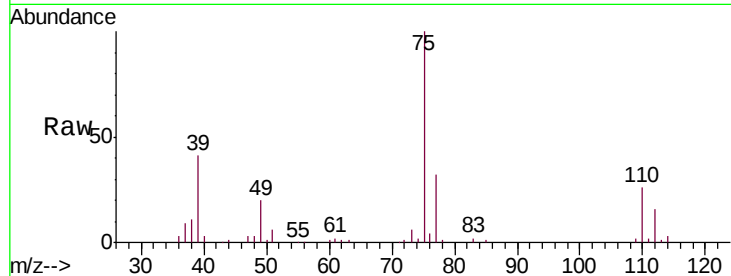
#53
t-1,3-Dichloropropene
Concen: 18.456 ug/l
RT: 7.88 min Scan# 2085
Delta R.T. -0.00 min
Lab File: VU028913.D
Acq: 22 Dec 2018 14:36

Instrument :
MSVOA_U
ClientSampled :
VU1222MBS02

Tgt Ion: 75 Resp: 41745
Ion Ratio Lower Upper
75 100
77 31.5 24.2 36.4

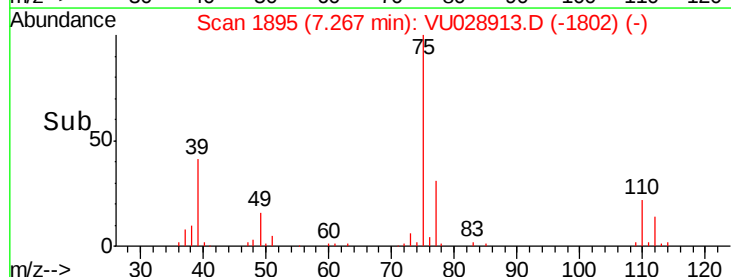
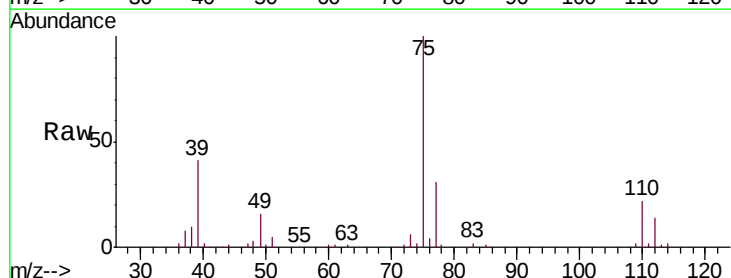
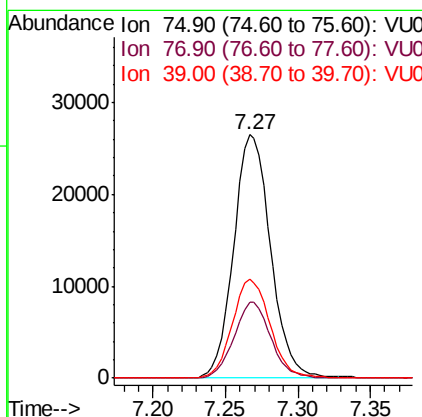
Manual Integrations
APPROVED

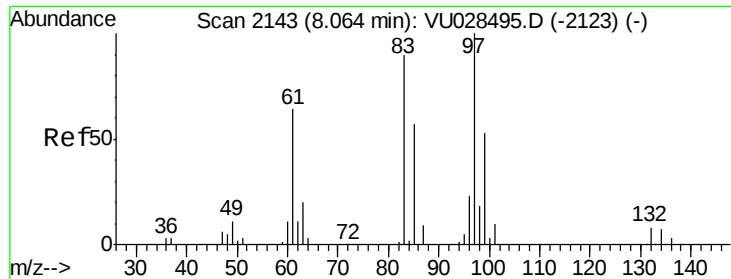
apatel
1/2/2019 10:31:23 AM



#54
cis-1,3-Dichloropropene
Concen: 19.077 ug/l
RT: 7.27 min Scan# 1895
Delta R.T. -0.00 min
Lab File: VU028913.D
Acq: 22 Dec 2018 14:36

Tgt Ion: 75 Resp: 46814
Ion Ratio Lower Upper
75 100
77 31.3 25.0 37.4
39 40.7 41.3 61.9#





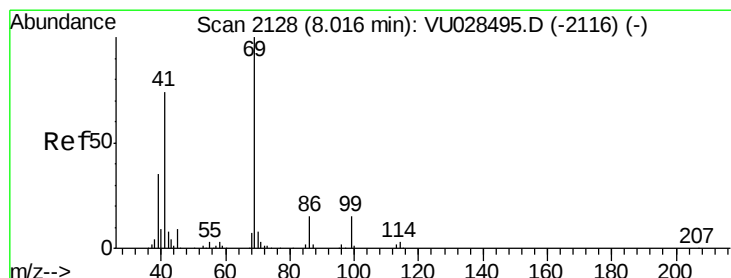
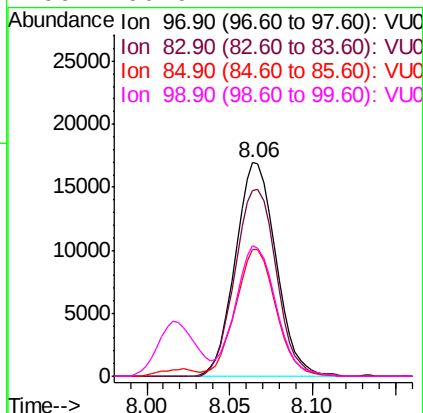
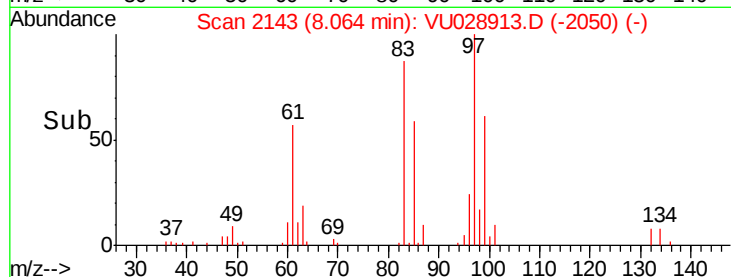
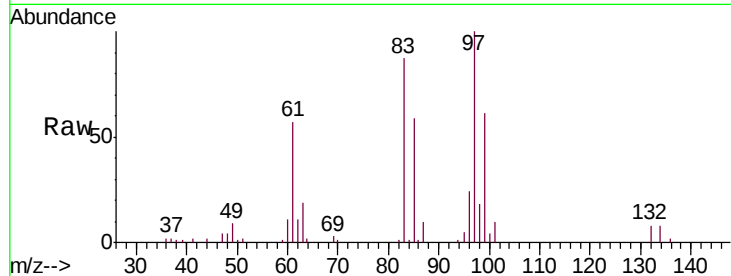
#55
 1,1,2-Trichloroethane
 Concen: 21.300 ug/l
 RT: 8.06 min Scan# 2143
 Delta R.T. -0.00 min
 Lab File: VU028913.D
 Acq: 22 Dec 2018 14:36

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1222MBS02

Tgt Ion	Ratio	Resp	Lower	Upper
97	100	28985		
83	87.2	72.4	108.6	
85	59.3	46.0	69.0	
99	60.9	47.4	71.2	

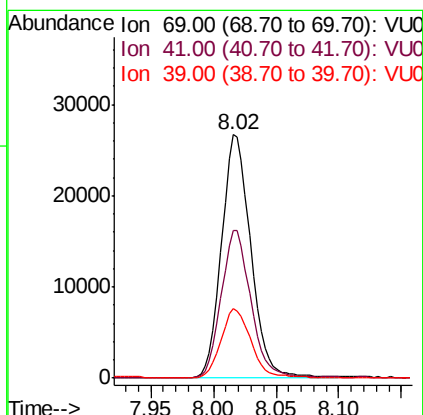
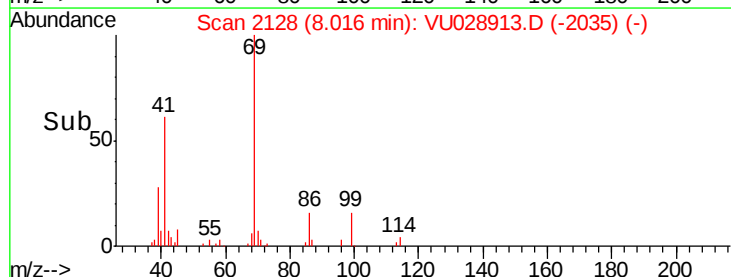
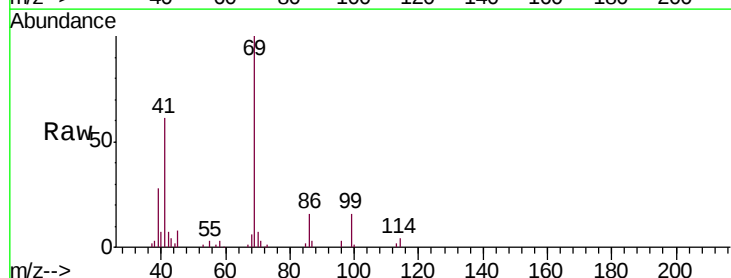
Manual Integrations
 APPROVED

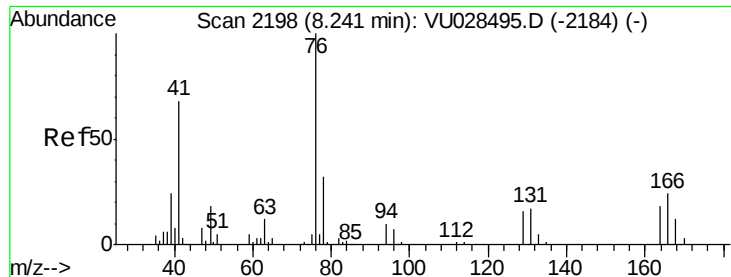
apatel
 1/2/2019 10:31:23 AM



#56
 Ethyl methacrylate
 Concen: 18.632 ug/l
 RT: 8.02 min Scan# 2128
 Delta R.T. -0.00 min
 Lab File: VU028913.D
 Acq: 22 Dec 2018 14:36

Tgt Ion	Ratio	Resp	Lower	Upper
69	100	43419		
41	61.3	59.1	88.7	
39	29.1	28.4	42.6	





#57

1,3-Dichloropropane

Concen: 19.813 ug/l

RT: 8.24 min Scan# 2198

Delta R.T. 0.00 min

Lab File: VU028913.D

Acq: 22 Dec 2018 14:36

Instrument :

MSVOA_U

ClientSampleId :

VU1222MBS02

Tgt Ion: 76 Resp: 50048

Ion Ratio Lower Upper

76 100

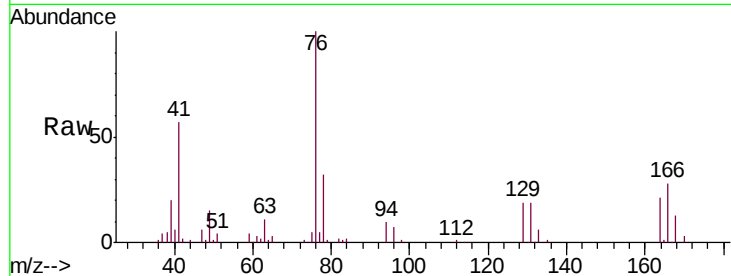
78 32.2 25.2 37.8

Manual Integrations

APPROVED

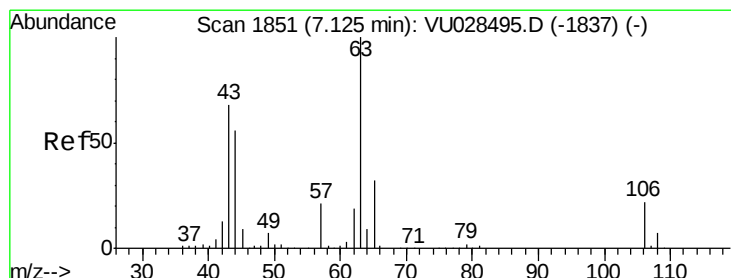
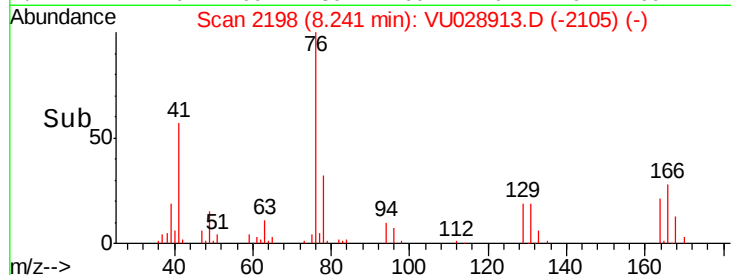
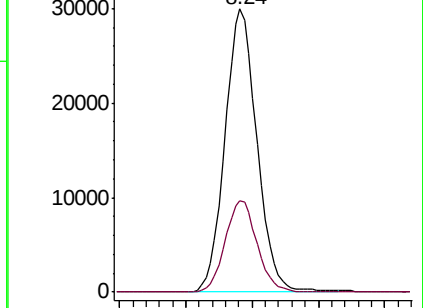
apatel

1/2/2019 10:31:23 AM



Abundance Ion 75.90 (75.60 to 76.60): VU0

Ion 77.90 (77.60 to 78.60): VU0



#58

2-Chloroethyl Vinyl ether

Concen: 83.831 ug/l

RT: 7.13 min Scan# 1851

Delta R.T. -0.00 min

Lab File: VU028913.D

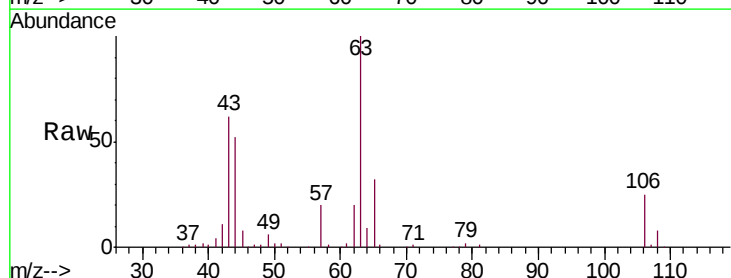
Acq: 22 Dec 2018 14:36

Tgt Ion: 63 Resp: 100060

Ion Ratio Lower Upper

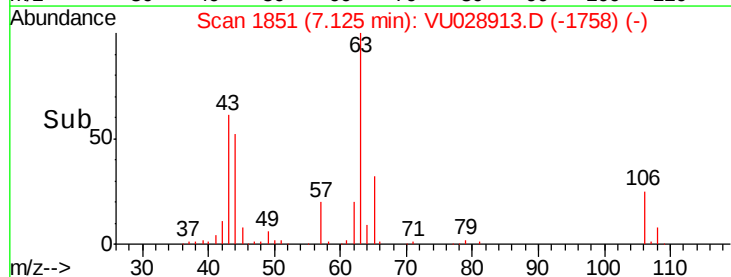
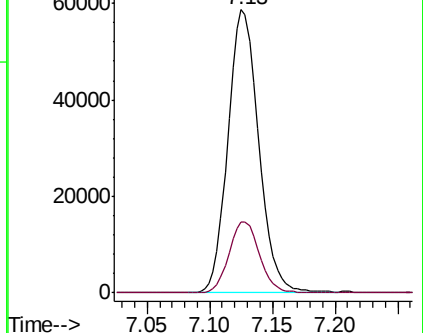
63 100

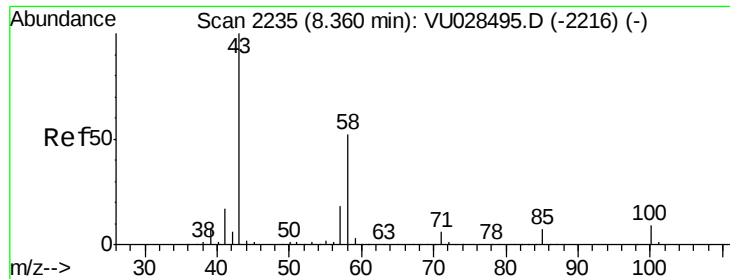
106 24.8 17.8 26.6



Abundance Ion 62.90 (62.60 to 63.60): VU0

Ion 105.90 (105.60 to 106.60): V





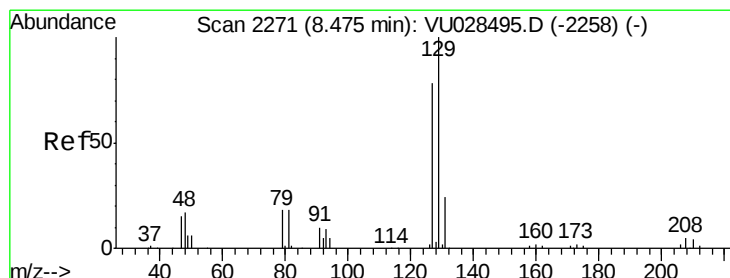
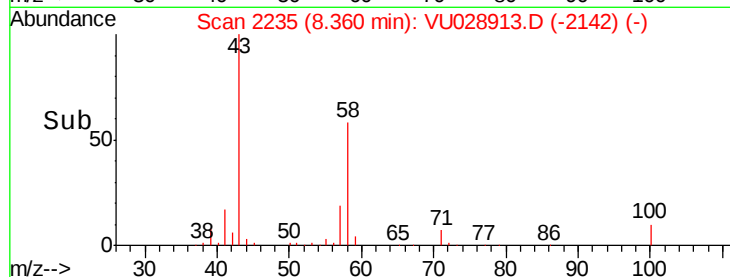
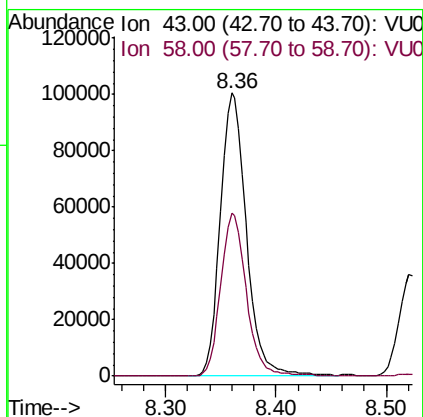
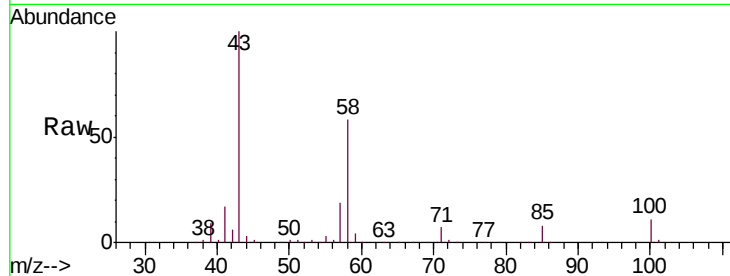
#59
2-Hexanone
Concen: 81.408 ug/l
RT: 8.36 min Scan# 2235
Delta R.T. 0.00 min
Lab File: VU028913.D
Acq: 22 Dec 2018 14:36

Instrument :
MSVOA_U
ClientSampleId :
VU1222MBS02

Tgt Ion: 43 Resp: 165263
Ion Ratio Lower Upper
43 100
58 57.1 25.9 77.6

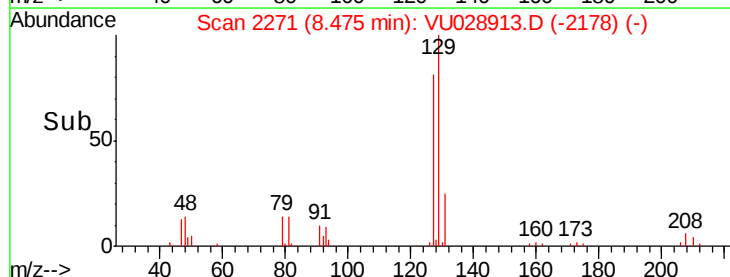
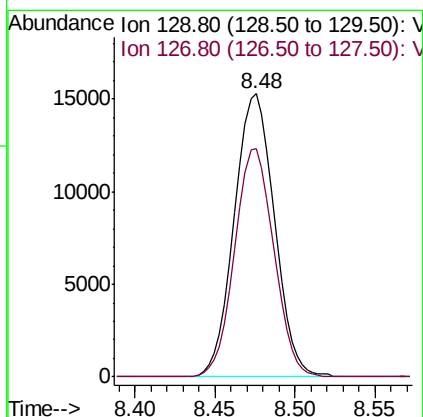
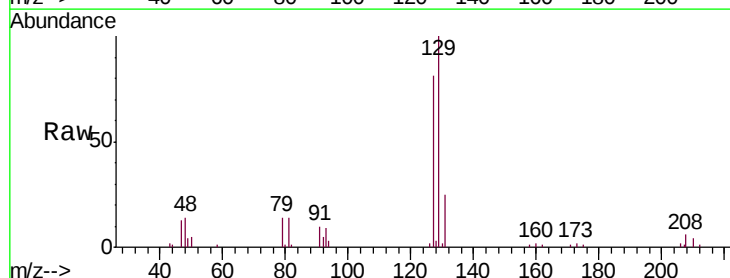
Manual Integrations
APPROVED

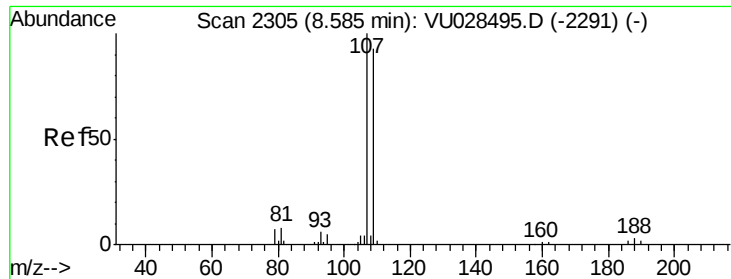
apatel
1/2/2019 10:31:23 AM



#60
Dibromochloromethane
Concen: 19.654 ug/l
RT: 8.48 min Scan# 2271
Delta R.T. 0.00 min
Lab File: VU028913.D
Acq: 22 Dec 2018 14:36

Tgt Ion: 129 Resp: 26185
Ion Ratio Lower Upper
129 100
127 78.7 39.1 117.3





#61

1,2-Dibromoethane

Concen: 21.488 ug/l

RT: 8.58 min Scan# 2305

Delta R.T. -0.00 min

Lab File: VU028913.D

Acq: 22 Dec 2018 14:36

Instrument :

MSVOA_U

ClientSampleId :

VU1222MBS02

Tgt Ion: 107 Resp: 30664

Ion Ratio Lower Upper

107 100

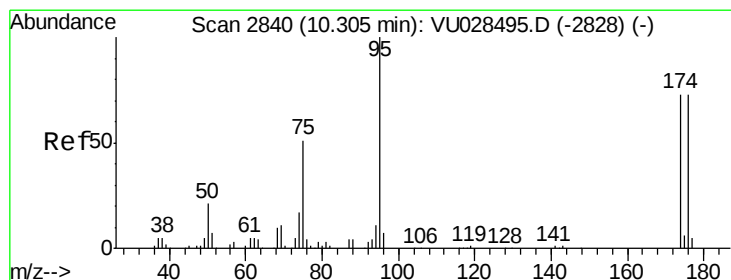
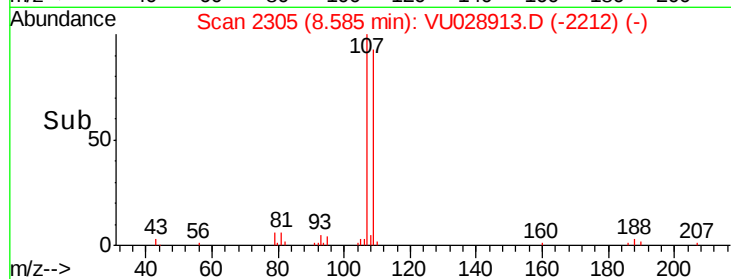
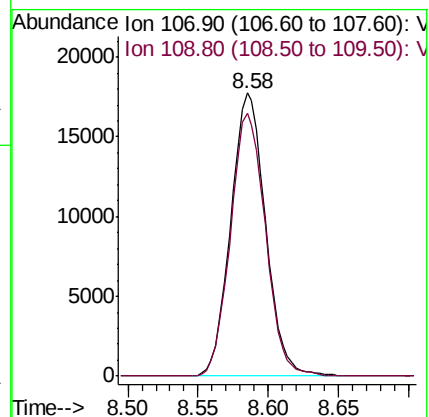
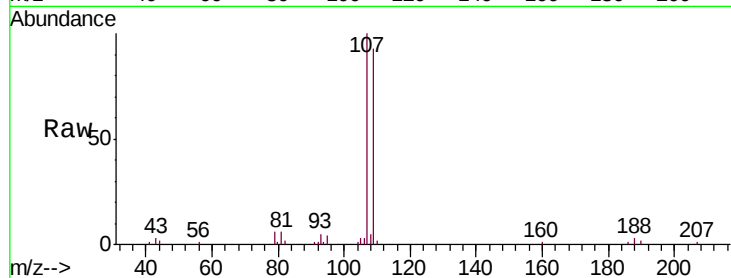
109 93.4 74.5 111.7

Manual Integrations

APPROVED

apatel

1/2/2019 10:31:23 AM



#62

4-Bromofluorobenzene

Concen: 48.130 ug/l

RT: 10.30 min Scan# 2840

Delta R.T. -0.00 min

Lab File: VU028913.D

Acq: 22 Dec 2018 14:36

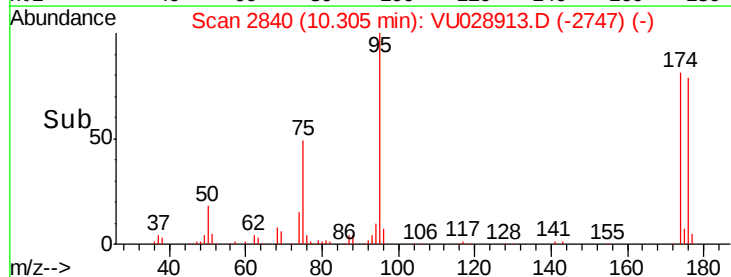
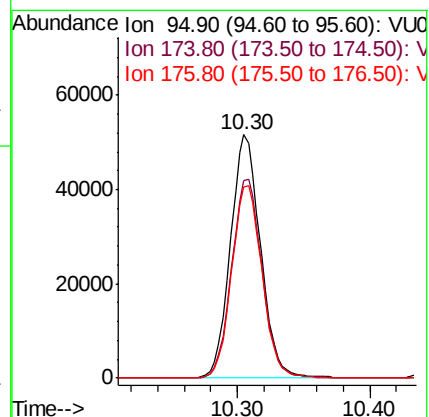
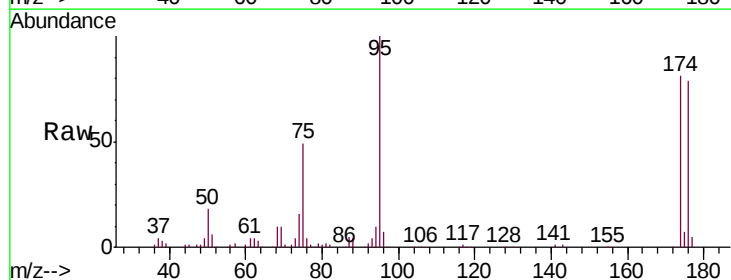
Tgt Ion: 95 Resp: 81279

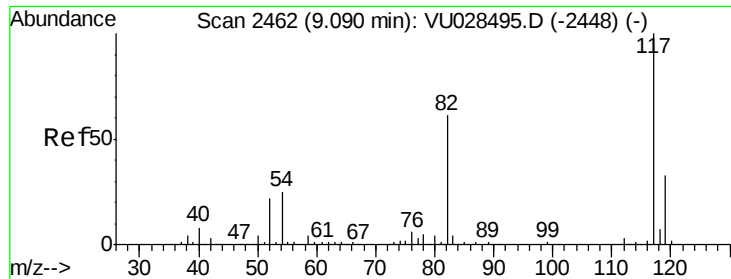
Ion Ratio Lower Upper

95 100

174 82.9 0.0 150.4

176 79.9 0.0 145.2





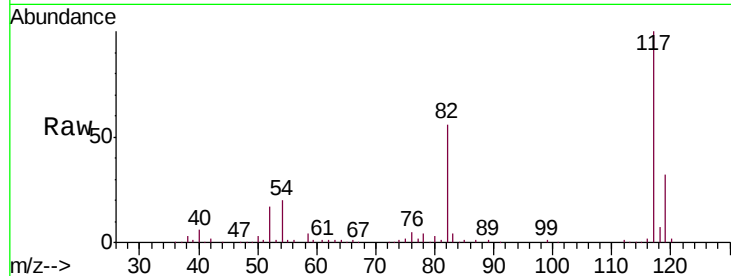
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2462
Delta R.T. -0.00 min
Lab File: VU028913.D
Acq: 22 Dec 2018 14:36

Instrument :
MSVOA_U
ClientSampleId :
VU1222MBS02

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	169538		
82	55.8	48.9	73.3	
119	32.1	26.2	39.4	

Manual Integrations
APPROVED

apatel
1/2/2019 10:31:23 AM

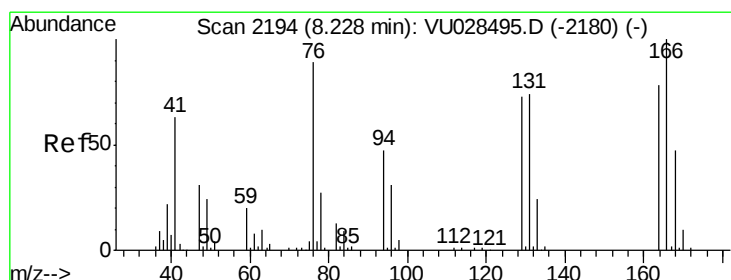
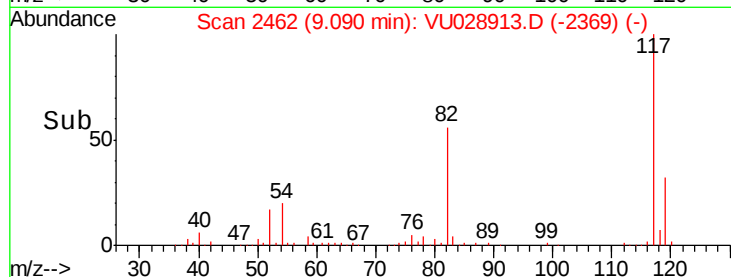
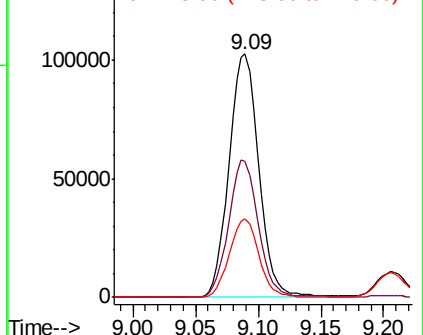


Abundance

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: 22.582 ug/l
RT: 8.23 min Scan# 2194
Delta R.T. -0.00 min
Lab File: VU028913.D
Acq: 22 Dec 2018 14:36

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	25537		
166	127.5	101.9	152.9	
129	90.9	74.9	112.3	
131	87.7	75.4	113.0	

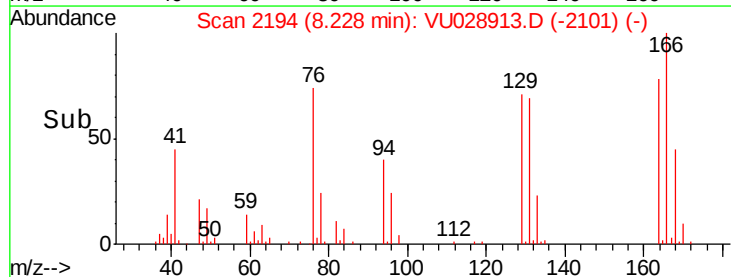
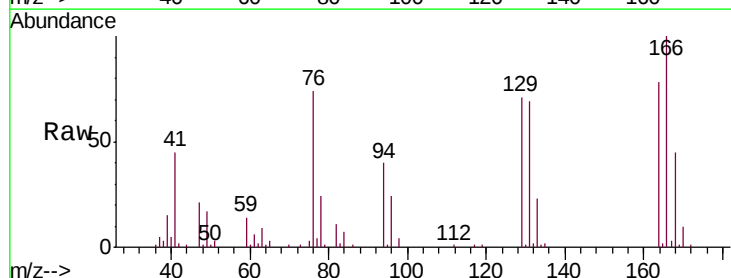
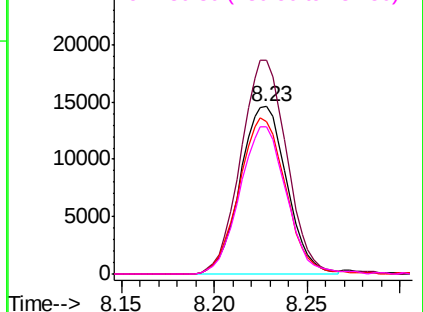
Abundance

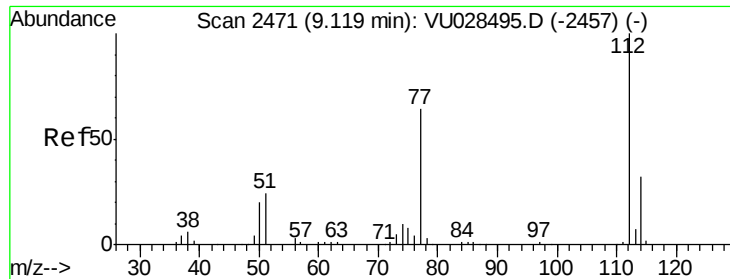
Ion 163.80 (163.50 to 164.50): V

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





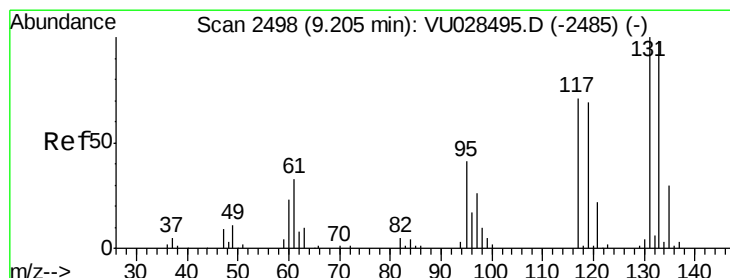
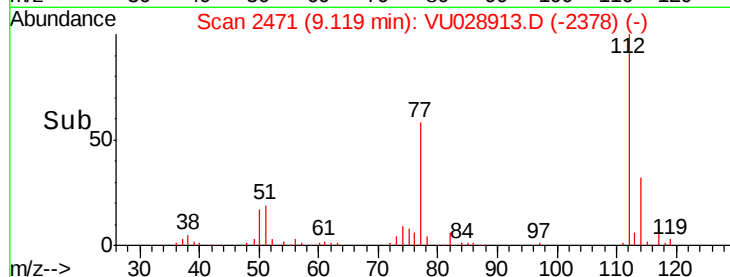
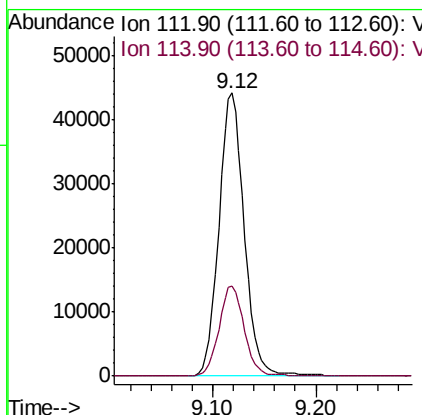
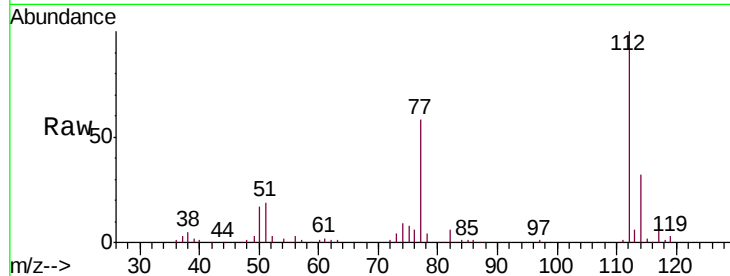
#65
Chlorobenzene
Concen: 20.845 ug/l
RT: 9.12 min Scan# 2471
Delta R.T. -0.00 min
Lab File: VU028913.D
Acq: 22 Dec 2018 14:36

Instrument :
MSVOA_U
ClientSampleId :
VU1222MBS02

Tgt Ion:112 Resp: 75306
Ion Ratio Lower Upper
112 100
114 31.7 25.3 37.9

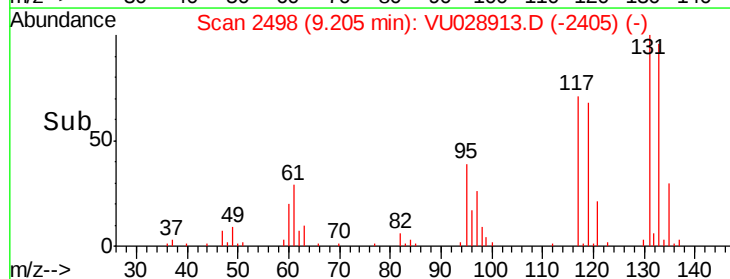
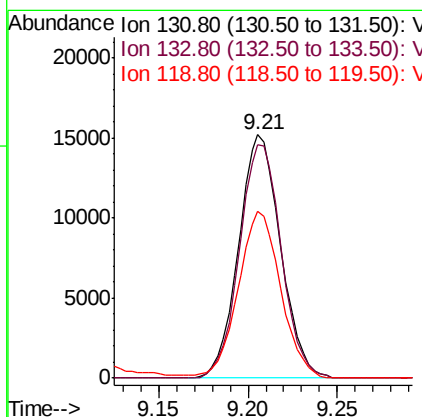
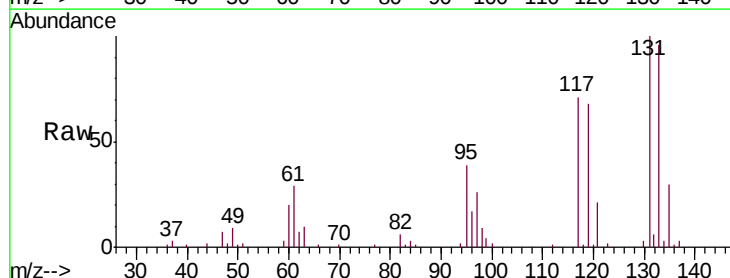
Manual Integrations
APPROVED

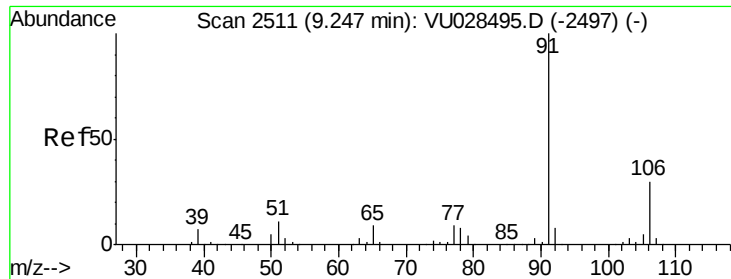
apatel
1/2/2019 10:31:23 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 21.553 ug/l
RT: 9.21 min Scan# 2498
Delta R.T. -0.00 min
Lab File: VU028913.D
Acq: 22 Dec 2018 14:36

Tgt Ion:131 Resp: 24865
Ion Ratio Lower Upper
131 100
133 95.8 48.0 144.0
119 69.6 34.6 103.9





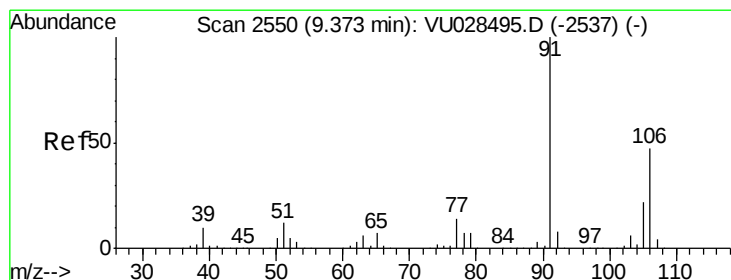
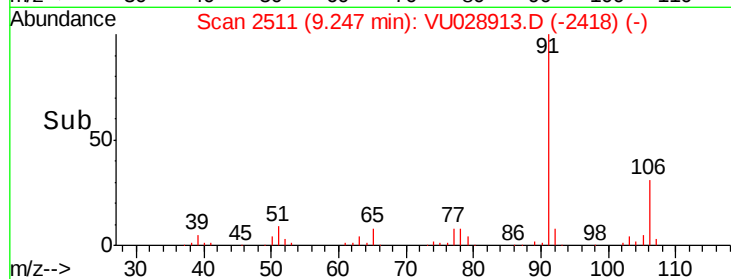
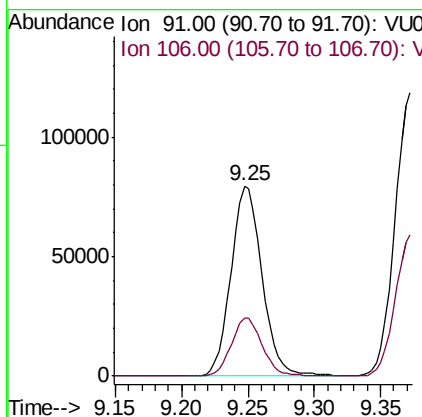
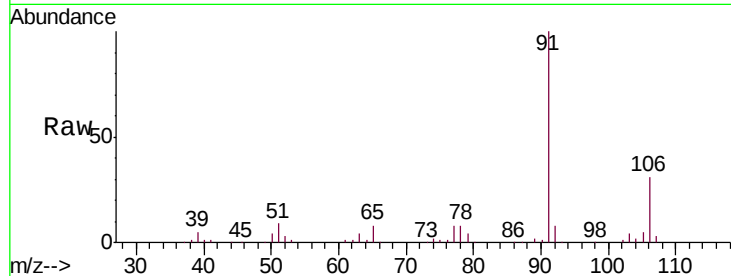
#67
Ethyl Benzene
Concen: 19.537 ug/l
RT: 9.25 min Scan# 2511
Delta R.T. -0.00 min
Lab File: VU028913.D
Acq: 22 Dec 2018 14:36

Instrument :
MSVOA_U
ClientSampled :
VU1222MBS02

Tgt Ion: 91 Resp: 129750
Ion Ratio Lower Upper
91 100
106 30.7 24.1 36.1

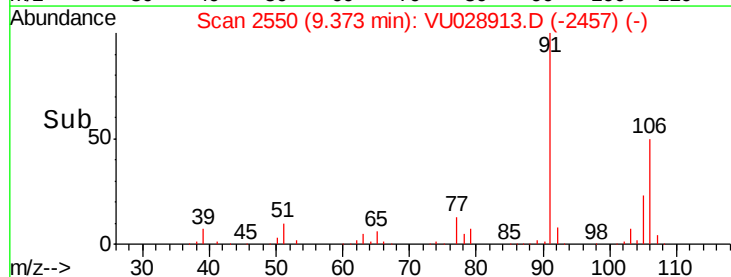
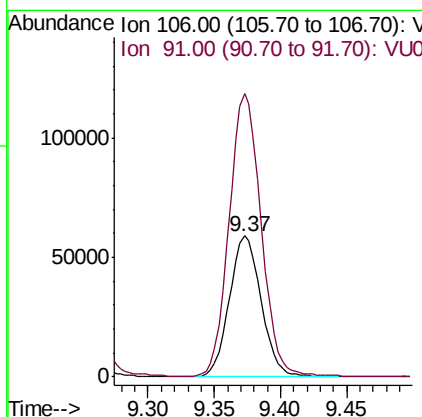
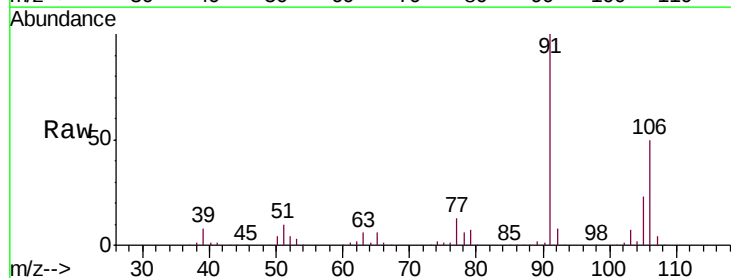
Manual Integrations
APPROVED

apatel
1/2/2019 10:31:23 AM



#68
m/p-Xylenes
Concen: 40.450 ug/l
RT: 9.37 min Scan# 2550
Delta R.T. -0.00 min
Lab File: VU028913.D
Acq: 22 Dec 2018 14:36

Tgt Ion: 106 Resp: 97750
Ion Ratio Lower Upper
106 100
91 203.5 167.4 251.0





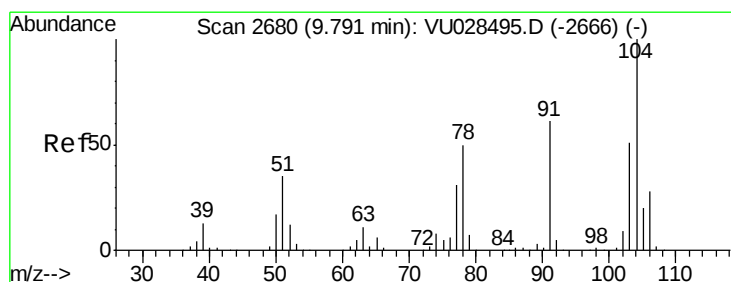
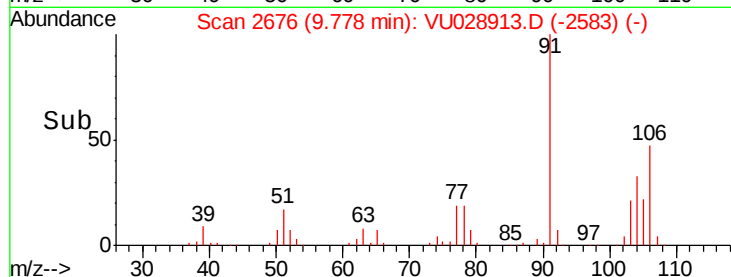
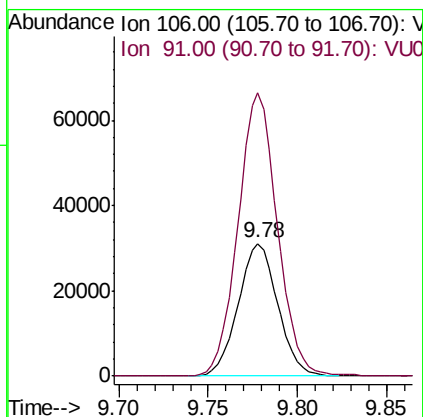
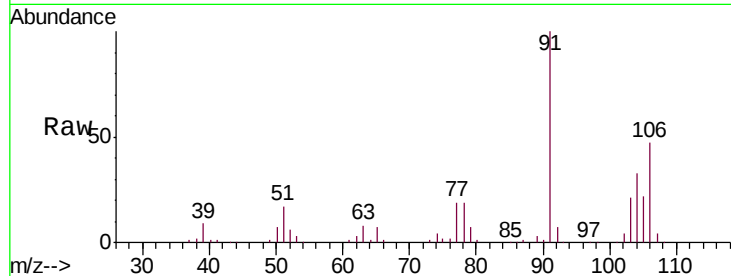
#69
o-Xylene
Concen: 20.509 ug/l
RT: 9.78 min Scan# 2676
Delta R.T. 0.00 min
Lab File: VU028913.D
Acq: 22 Dec 2018 14:36

Instrument :
MSVOA_U
ClientSampleId :
VU1222MBS02

Tgt Ion:106 Resp: 48163
Ion Ratio Lower Upper
106 100
91 213.2 111.3 334.0

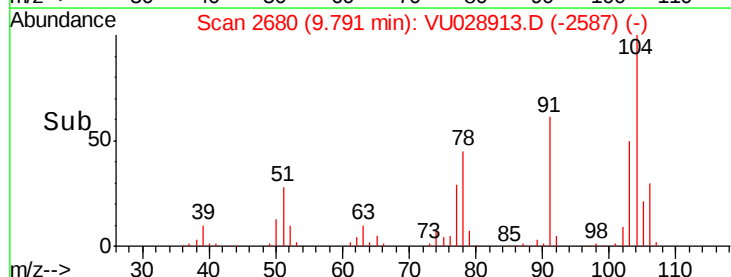
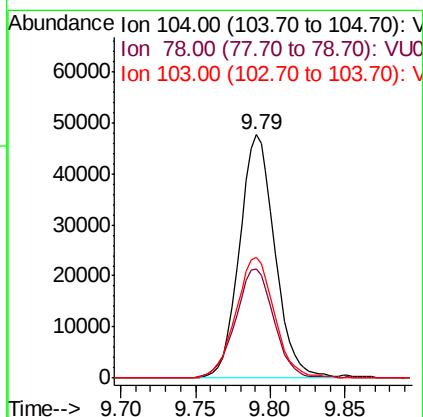
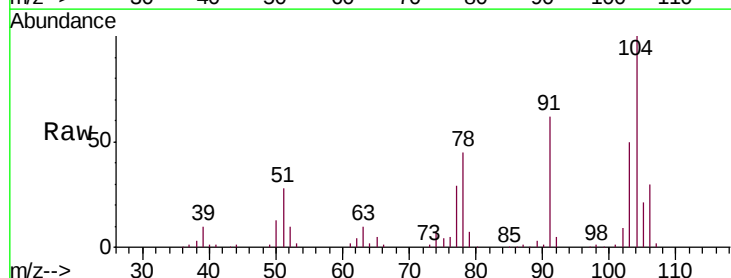
Manual Integrations
APPROVED

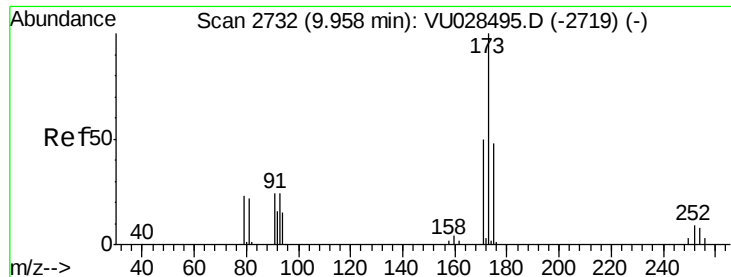
apatel
1/2/2019 10:31:23 AM



#70
Styrene
Concen: 20.194 ug/l
RT: 9.79 min Scan# 2680
Delta R.T. -0.00 min
Lab File: VU028913.D
Acq: 22 Dec 2018 14:36

Tgt Ion:104 Resp: 78484
Ion Ratio Lower Upper
104 100
78 49.1 43.0 64.6
103 54.2 44.2 66.4





#71

Bromoform

Concen: 21.117 ug/l

RT: 9.96 min Scan# 2732

Delta R.T. -0.00 min

Lab File: VU028913.D

Acq: 22 Dec 2018 14:36

Instrument :

MSVOA_U

ClientSampleId :

VU1222MBS02

Tgt Ion:173 Resp: 20724

Ion Ratio Lower Upper

173 100

175 48.2 23.9 71.8

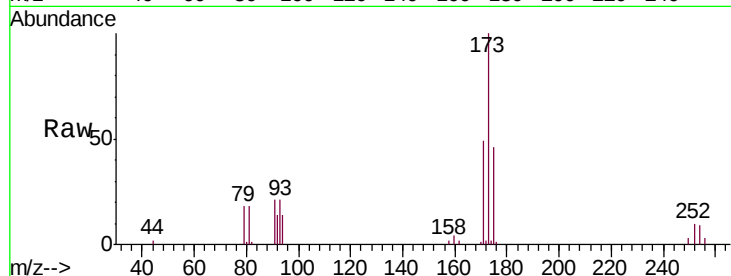
254 0.0 0.0 0.0

Manual Integrations

APPROVED

apatel

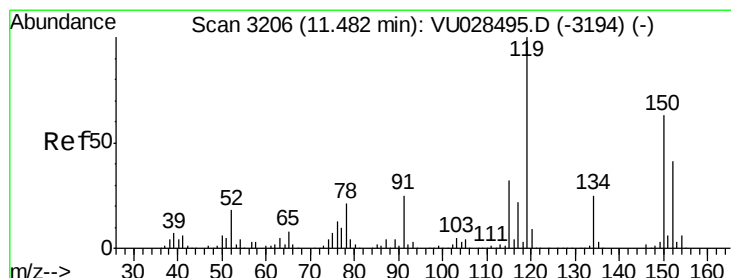
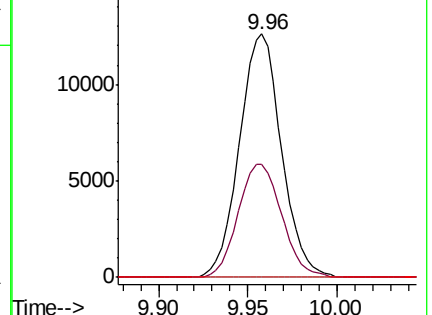
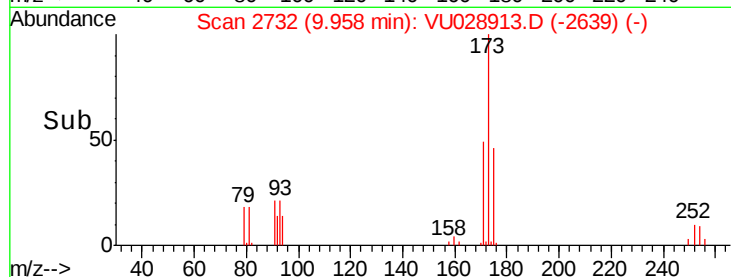
1/2/2019 10:31:23 AM



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.48 min Scan# 3206

Delta R.T. -0.00 min

Lab File: VU028913.D

Acq: 22 Dec 2018 14:36

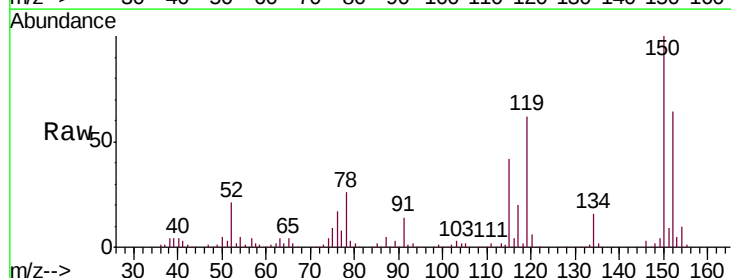
Tgt Ion:152 Resp: 82324

Ion Ratio Lower Upper

152 100

115 68.2 42.7 128.1

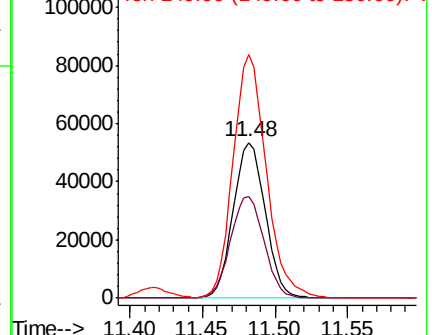
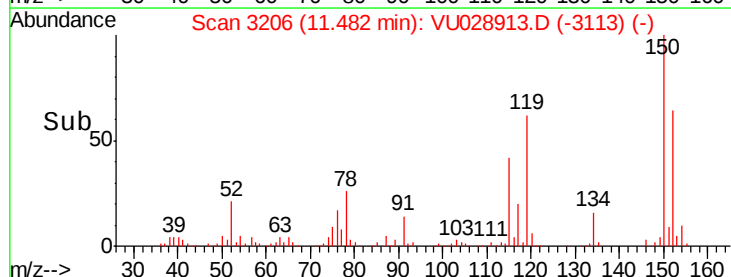
150 161.7 0.0 346.0

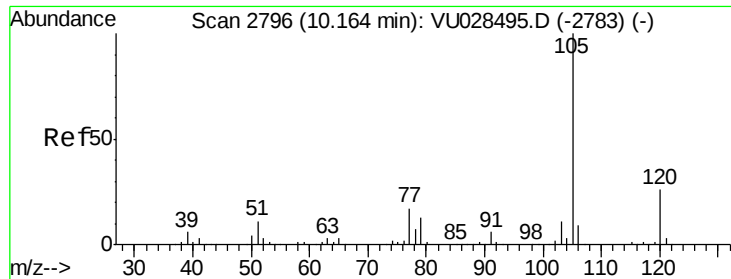


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 19.877 ug/l

RT: 10.16 min Scan# 2796

Delta R.T. 0.00 min

Lab File: VU028913.D

Acq: 22 Dec 2018 14:36

Instrument :

MSVOA_U

ClientSampleId :

VU1222MBS02

Tgt Ion: 105 Resp: 125563

Ion Ratio Lower Upper

105 100

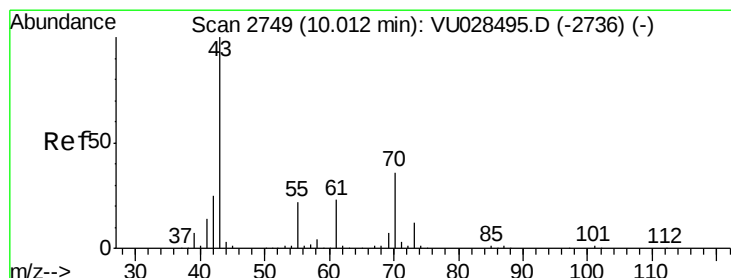
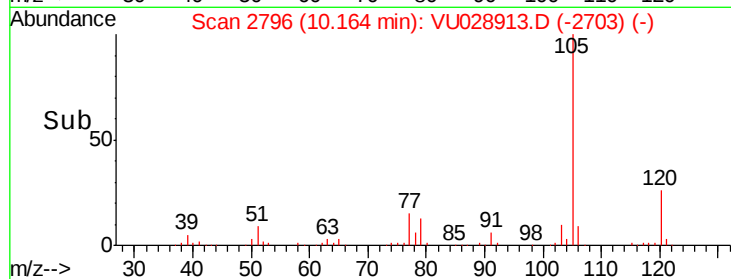
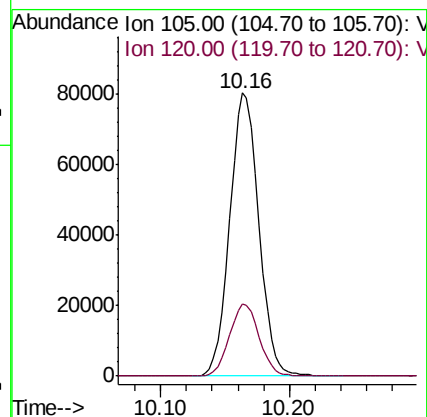
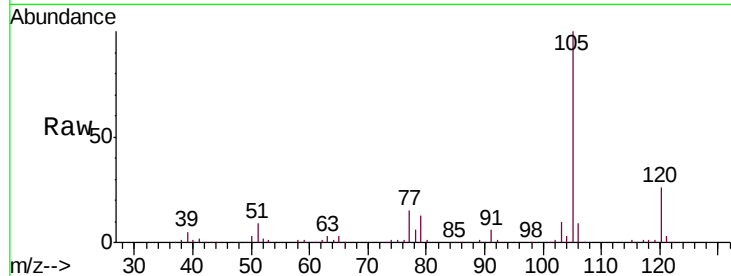
120 26.0 12.9 38.6

Manual Integrations

APPROVED

apatel

1/2/2019 10:31:23 AM



#74

N-ethyl acetate

Concen: 15.281 ug/l

RT: 10.01 min Scan# 2749

Delta R.T. 0.00 min

Lab File: VU028913.D

Acq: 22 Dec 2018 14:36

Tgt Ion: 43 Resp: 55683

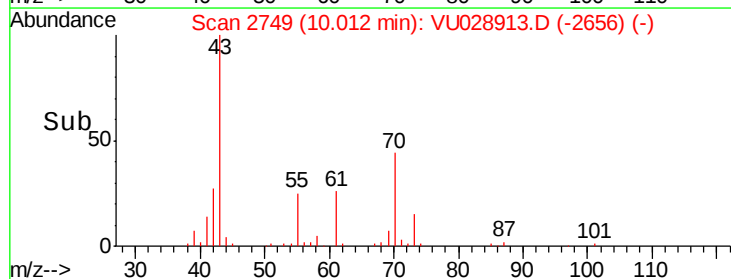
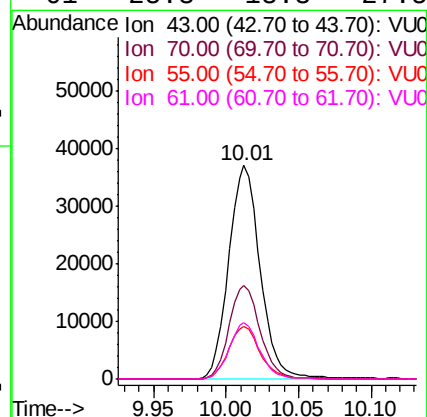
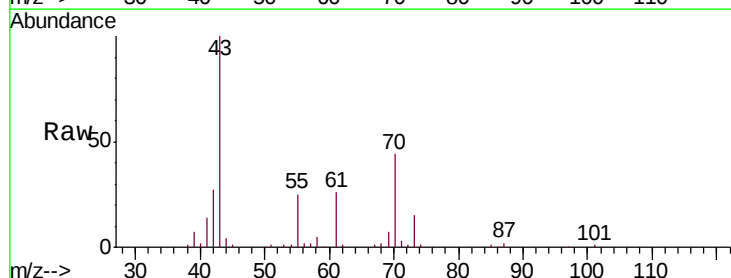
Ion Ratio Lower Upper

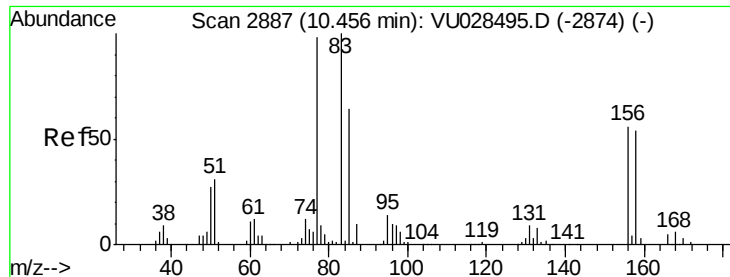
43 100

70 43.1 29.3 43.9

55 24.8 18.0 27.0

61 25.3 18.3 27.5





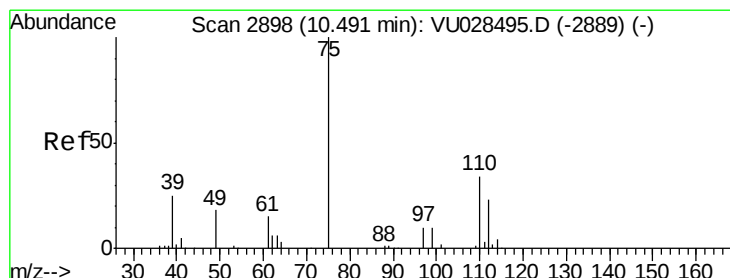
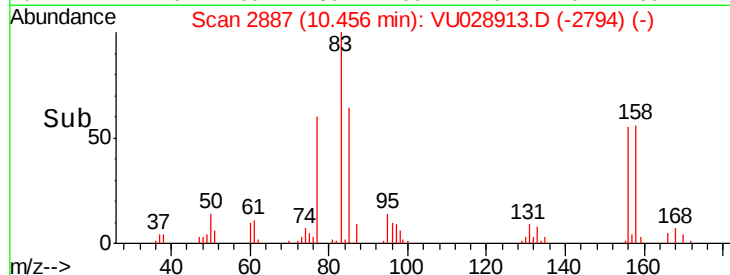
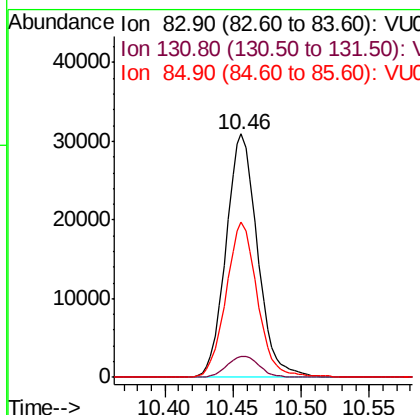
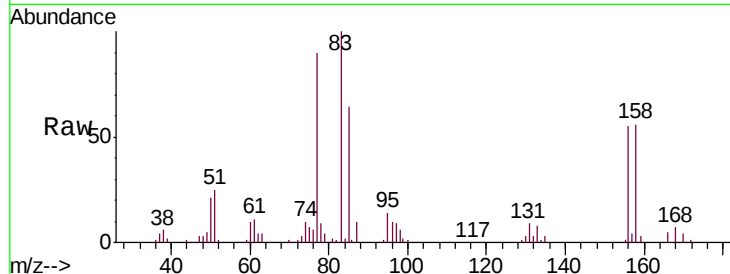
#75
 1,1,2,2-Tetrachloroethane
 Concen: 20.469 ug/l
 RT: 10.46 min Scan# 2887
 Delta R.T. -0.00 min
 Lab File: VU028913.D
 Acq: 22 Dec 2018 14:36

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1222MBS02

Tgt Ion	Ratio	Resp	Lower	Upper
83	100	49671		
131	8.8	4.2	12.4	
85	63.5	31.8	95.4	

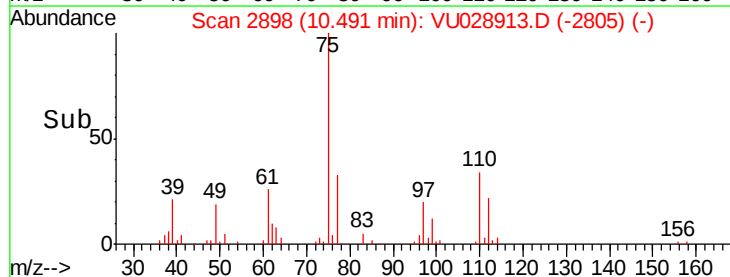
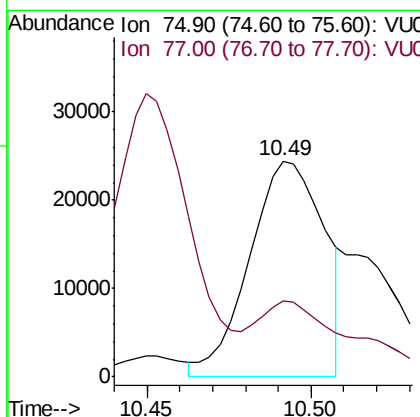
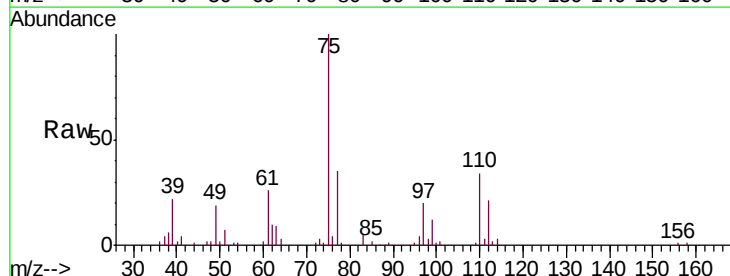
Manual Integrations
 APPROVED

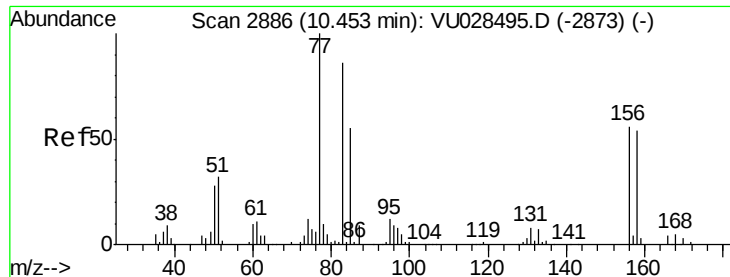
apatel
 1/2/2019 10:31:23 AM



#76
 1,2,3-Trichloropropane
 Concen: 18.450 ug/l m
 RT: 10.49 min Scan# 2898
 Delta R.T. -0.00 min
 Lab File: VU028913.D
 Acq: 22 Dec 2018 14:36

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	38785		
77	46.3	20.8	62.4	





#77

Bromobenzene

Concen: 21.061 ug/l

RT: 10.45 min Scan# 2886

Delta R.T. -0.00 min

Lab File: VU028913.D

Acq: 22 Dec 2018 14:36

Instrument :

MSVOA_U

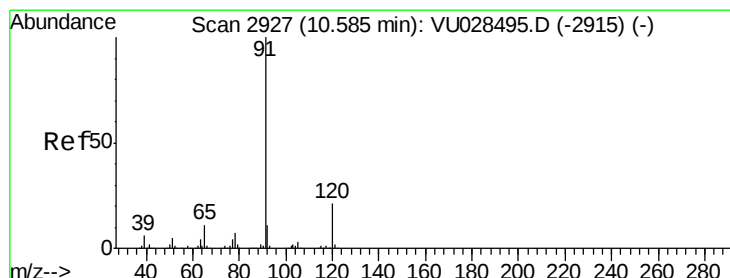
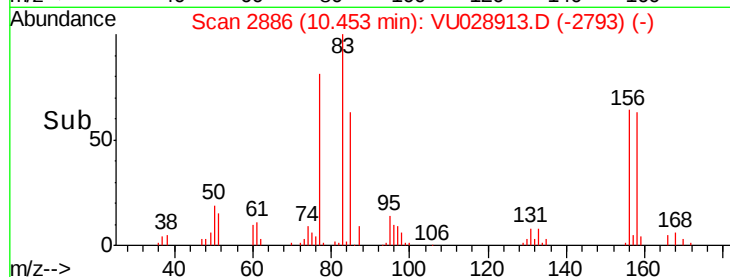
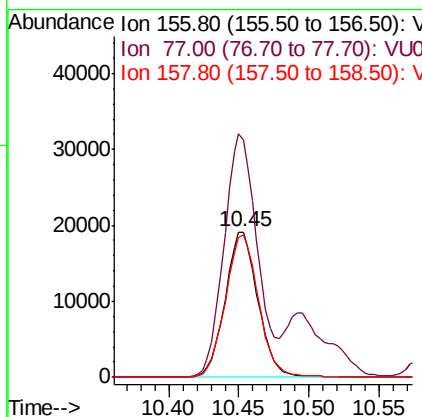
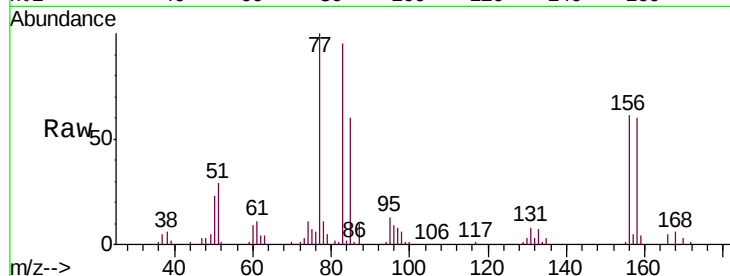
ClientSampleId :

VU1222MBS02

Tgt Ion	Ratio	Lower	Upper
156	100		
77	170.6	92.4	277.2
158	98.8	48.4	145.3

Manual Integrations
APPROVED

apatel
1/2/2019 10:31:23 AM



#78

n-propylbenzene

Concen: 18.760 ug/l

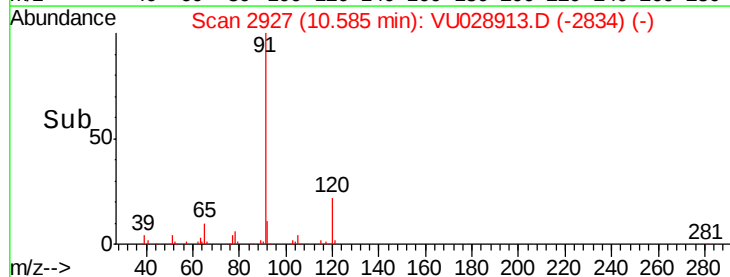
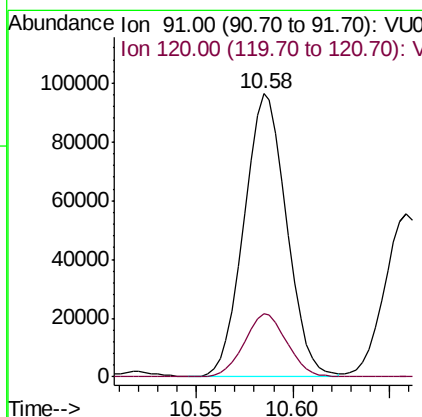
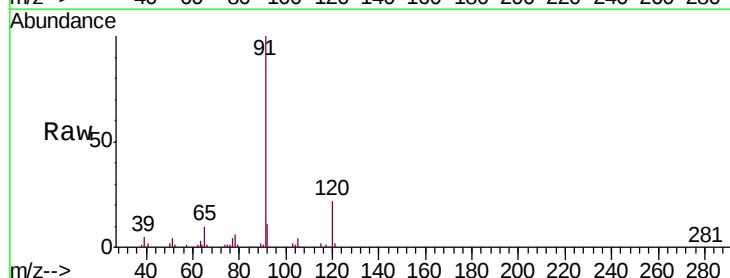
RT: 10.58 min Scan# 2927

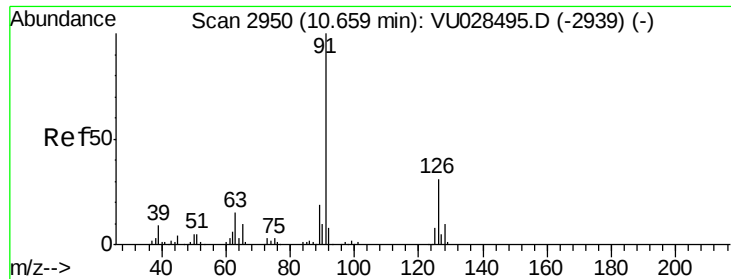
Delta R.T. -0.00 min

Lab File: VU028913.D

Acq: 22 Dec 2018 14:36

Tgt Ion	Ratio	Lower	Upper
91	100		
120	22.5	10.6	31.8





#79

2-Chlorotoluene

Concen: 19.791 ug/l

RT: 10.66 min Scan# 2950

Delta R.T. -0.00 min

Lab File: VU028913.D

Acq: 22 Dec 2018 14:36

Instrument :

MSVOA_U

ClientSampleId :

VU1222MBS02

Tgt Ion: 91 Resp: 89484

Ion Ratio Lower Upper

91 100

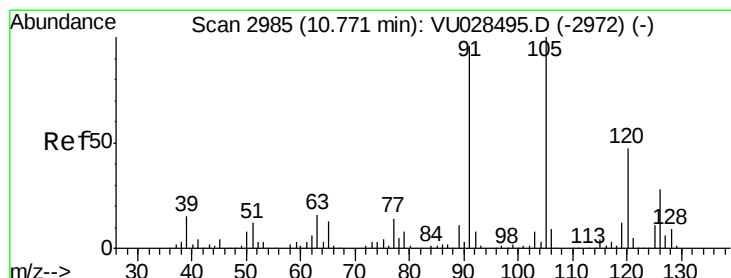
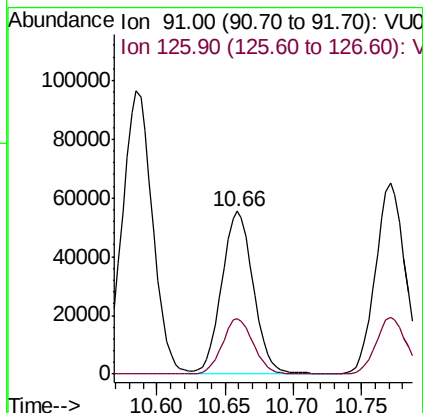
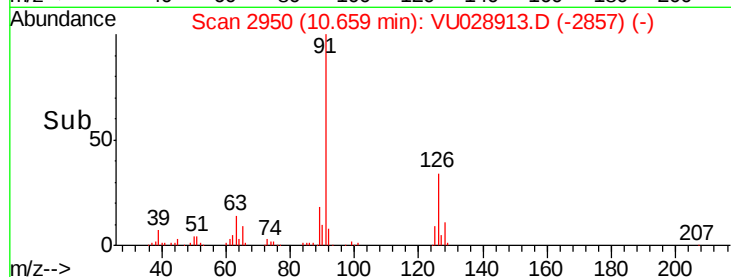
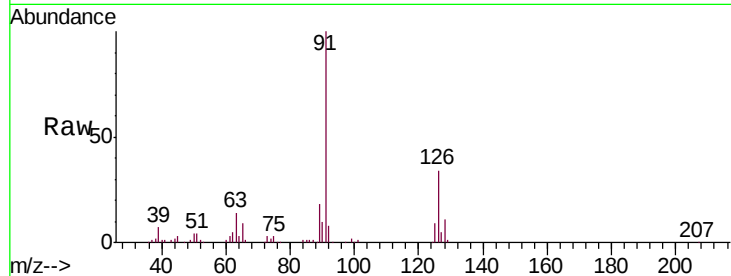
126 33.5 15.6 46.8

Manual Integrations

APPROVED

apatel

1/2/2019 10:31:23 AM



#80

1,3,5-Trimethylbenzene

Concen: 19.889 ug/l

RT: 10.77 min Scan# 2985

Delta R.T. -0.00 min

Lab File: VU028913.D

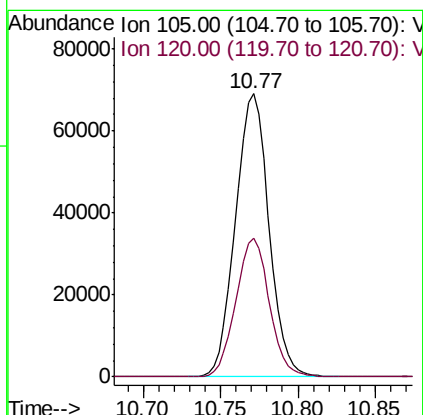
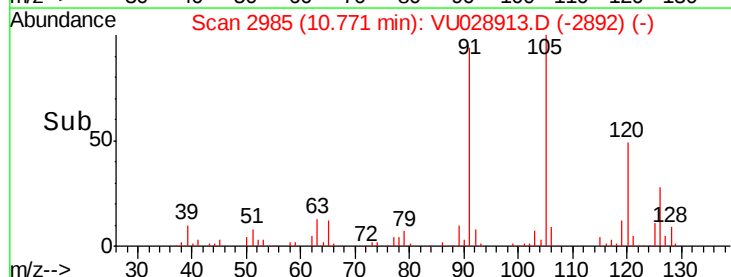
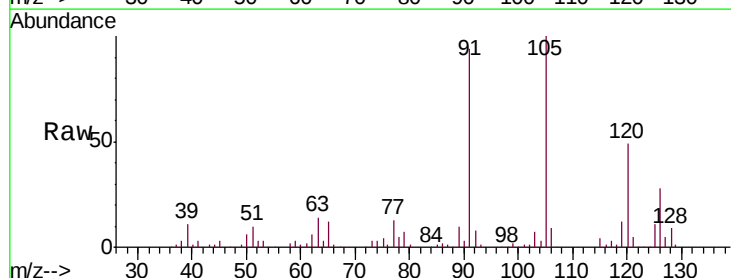
Acq: 22 Dec 2018 14:36

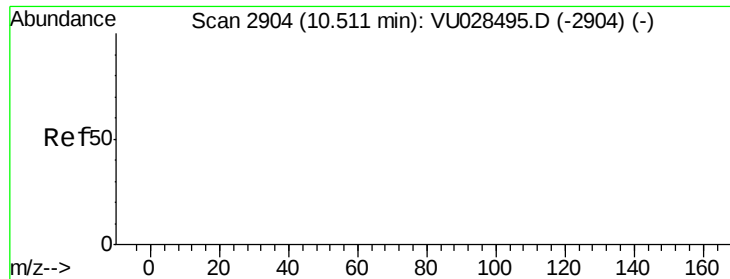
Tgt Ion: 105 Resp: 104000

Ion Ratio Lower Upper

105 100

120 49.1 23.7 71.1





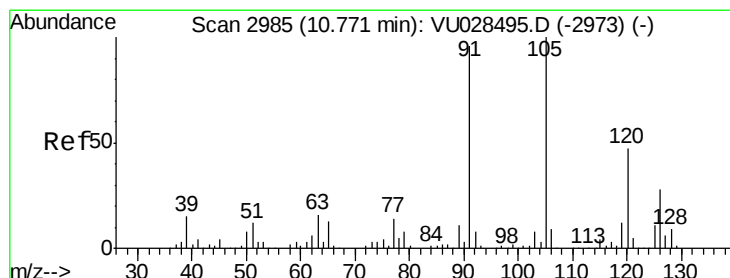
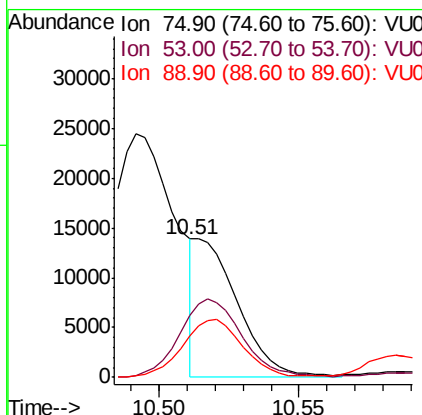
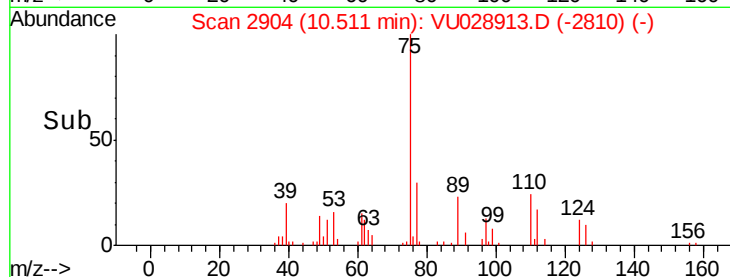
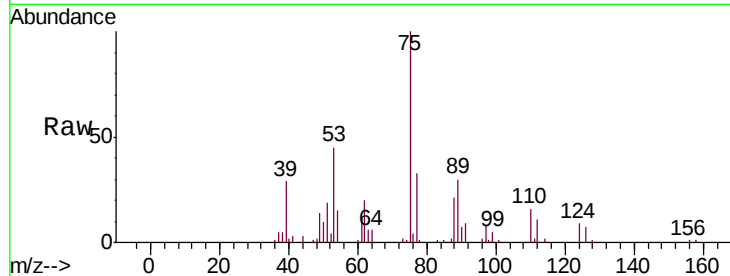
#81
trans-1,4-Dichloro-2-butene
Concen: 17.641 ug/l m
RT: 10.51 min Scan# 2904
Delta R.T. 0.00 min
Lab File: VU028913.D
Acq: 22 Dec 2018 14:36

Instrument :
MSVOA_U
ClientSampleId :
VU1222MBS02

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

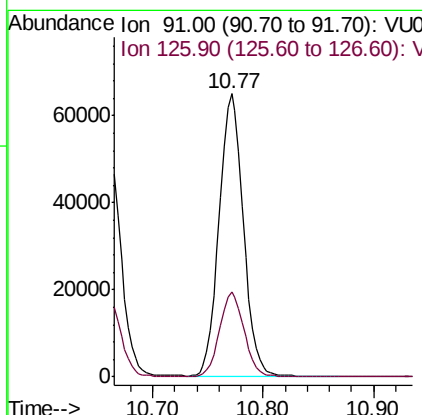
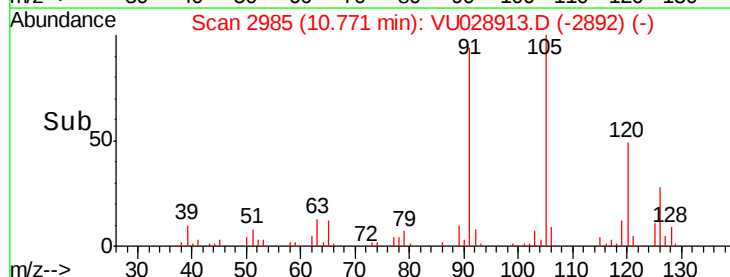
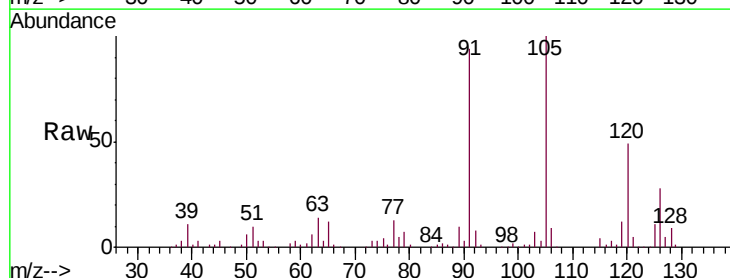
Manual Integrations
APPROVED

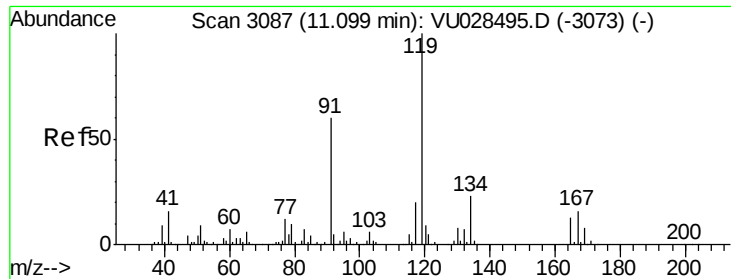
apatel
1/2/2019 10:31:23 AM



#82
4-Chlorotoluene
Concen: 18.647 ug/l
RT: 10.77 min Scan# 2985
Delta R.T. -0.00 min
Lab File: VU028913.D
Acq: 22 Dec 2018 14:36

Tgt Ion	Ratio	Lower	Upper
91	100		
126	30.0	14.1	42.3





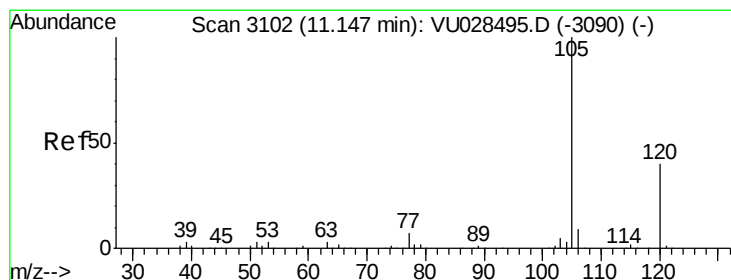
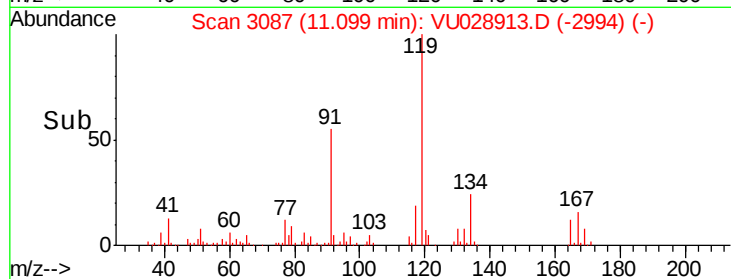
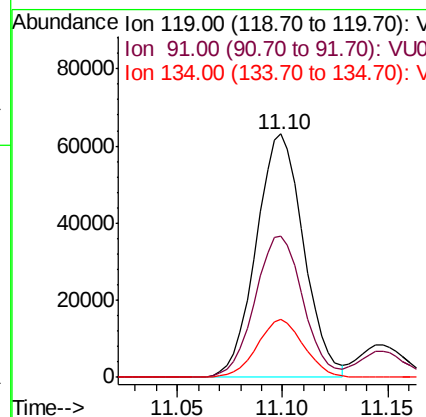
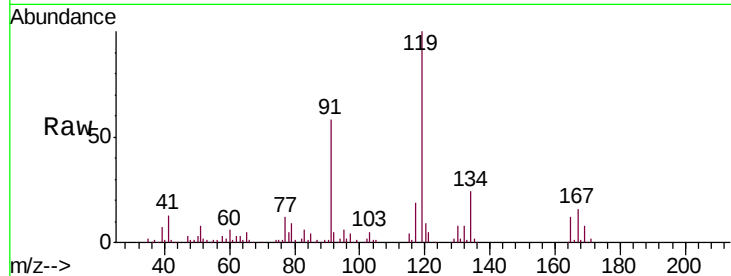
#83
tert-Butylbenzene
Concen: 19.593 ug/l
RT: 11.10 min Scan# 3087
Delta R.T. -0.00 min
Lab File: VU028913.D
Acq: 22 Dec 2018 14:36

Instrument :
MSVOA_U
ClientSampleId :
VU1222MBS02

Tgt Ion	Ratio	Resp	Lower	Upper
119	100	98749		
91	59.0	30.3	91.0	
134	23.4	11.2	33.5	

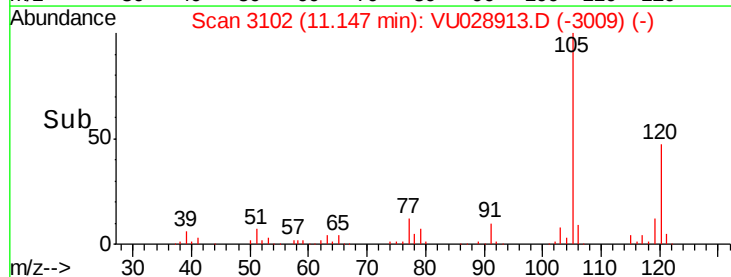
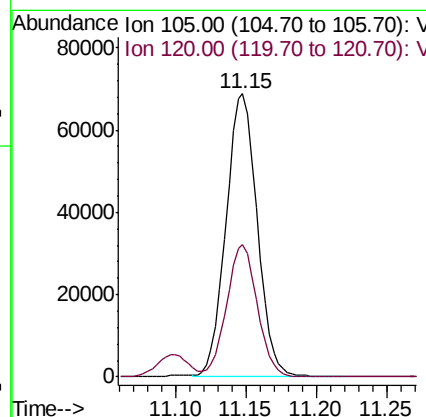
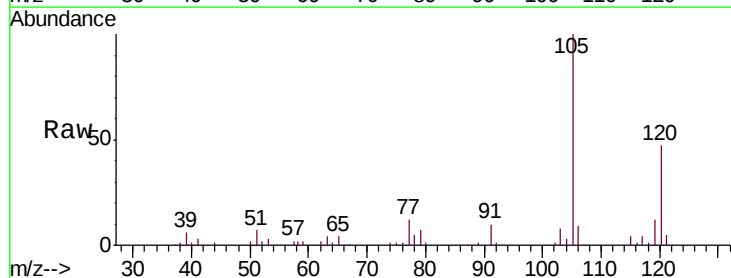
Manual Integrations
APPROVED

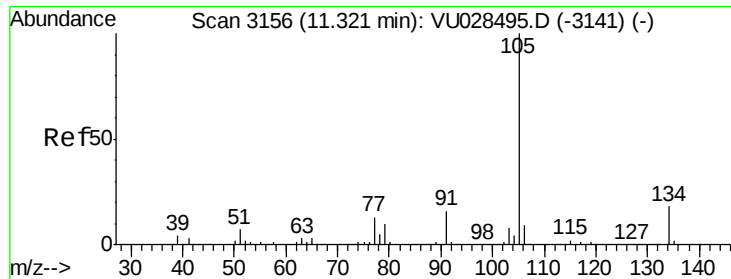
apatel
1/2/2019 10:31:23 AM



#84
1,2,4-Trimethylbenzene
Concen: 19.772 ug/l
RT: 11.15 min Scan# 3102
Delta R.T. 0.00 min
Lab File: VU028913.D
Acq: 22 Dec 2018 14:36

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	106552		
120	46.1	21.8	65.4	





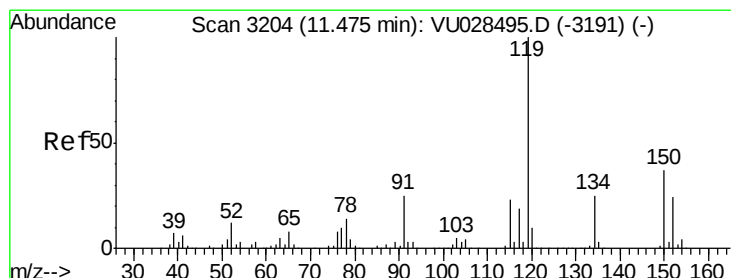
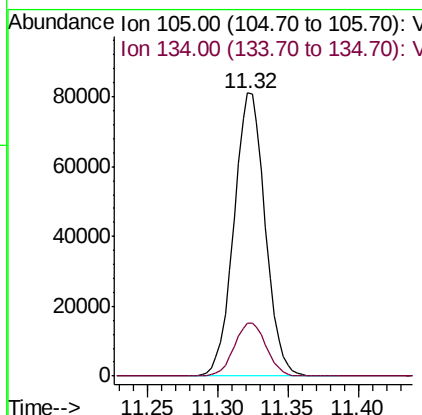
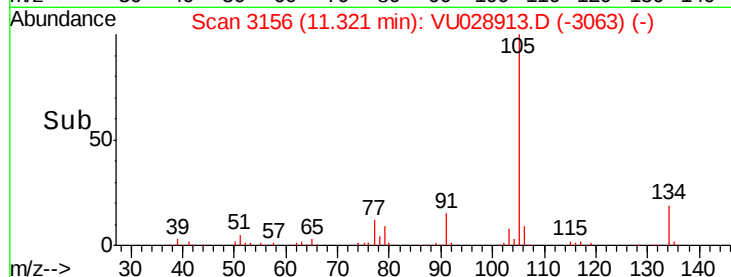
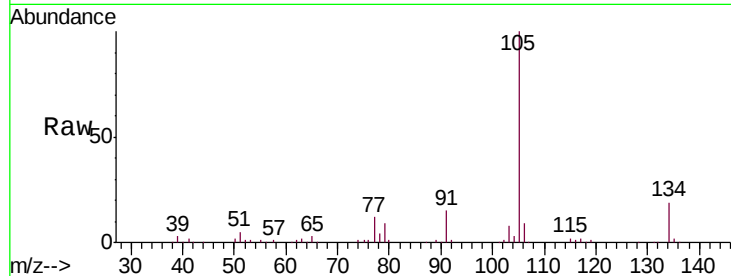
#85
 sec-Butylbenzene
 Concen: 19.420 ug/l
 RT: 11.32 min Scan# 3156
 Delta R.T. -0.00 min
 Lab File: VU028913.D
 Acq: 22 Dec 2018 14:36

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1222MBS02

Tgt Ion:105 Resp: 125741
 Ion Ratio Lower Upper
 105 100
 134 19.2 9.2 27.6

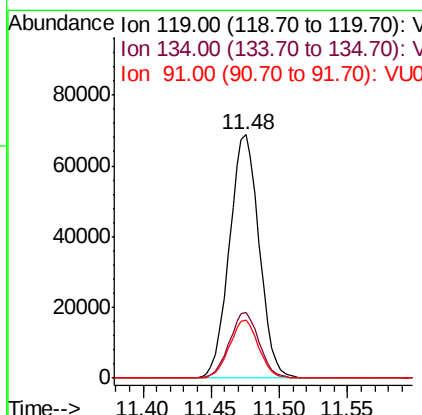
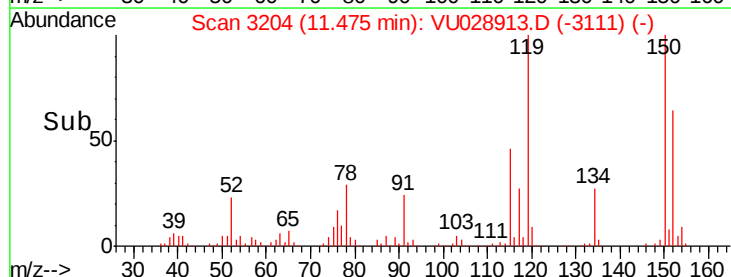
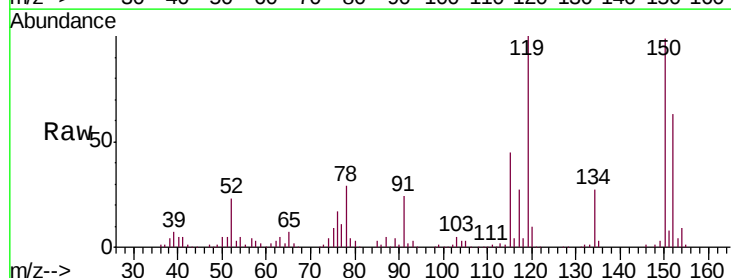
Manual Integrations
 APPROVED

apatel
 1/2/2019 10:31:23 AM



#86
 p-Isopropyltoluene
 Concen: 18.946 ug/l
 RT: 11.48 min Scan# 3204
 Delta R.T. -0.00 min
 Lab File: VU028913.D
 Acq: 22 Dec 2018 14:36

Tgt Ion:119 Resp: 104208
 Ion Ratio Lower Upper
 119 100
 134 26.7 12.7 38.1
 91 23.2 12.6 37.6





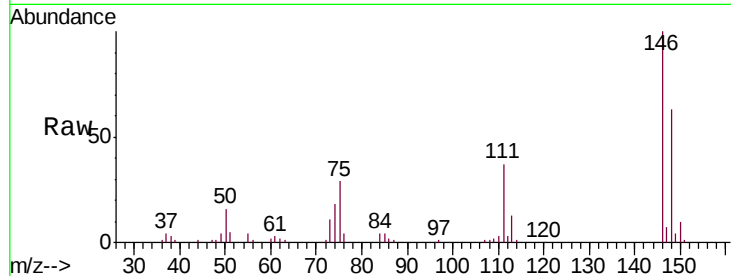
#87
 1,3-Dichlorobenzene
 Concen: 20.512 ug/l
 RT: 11.41 min Scan# 3185
 Delta R.T. -0.00 min
 Lab File: VU028913.D
 Acq: 22 Dec 2018 14:36

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1222MBS02

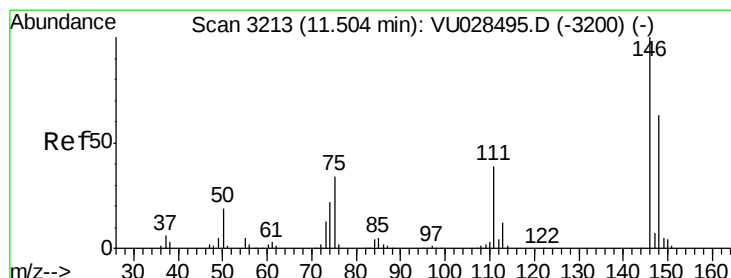
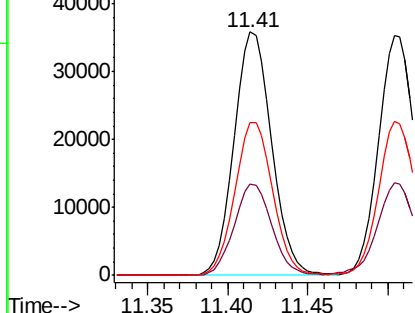
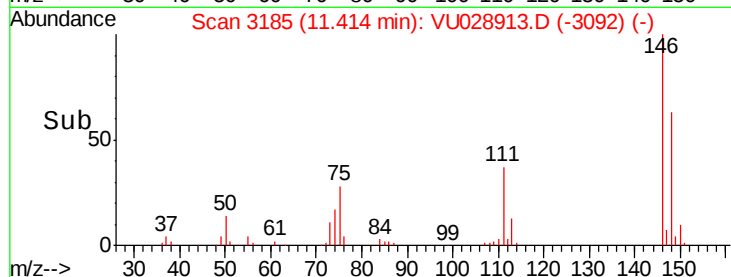
Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.4	20.7	62.1
148	63.0	31.9	95.7

Manual Integrations
 APPROVED

apatel
 1/2/2019 10:31:23 AM

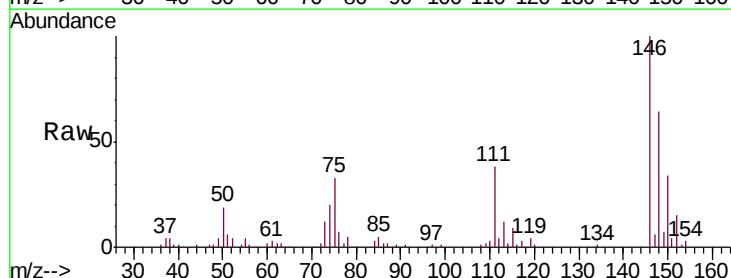


Abundance Ion 145.90 (145.60 to 146.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

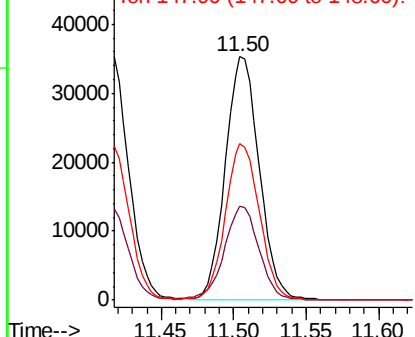
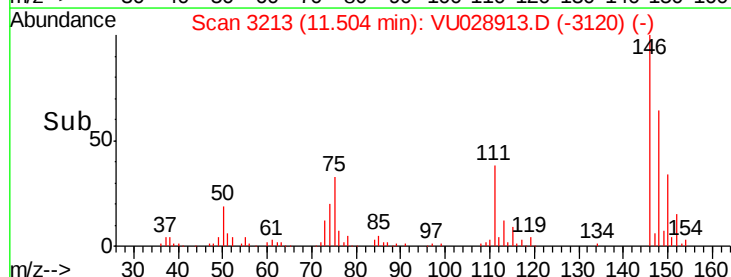


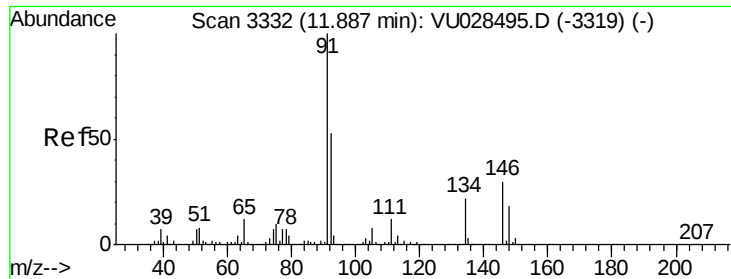
#88
 1,4-Dichlorobenzene
 Concen: 19.881 ug/l
 RT: 11.50 min Scan# 3213
 Delta R.T. 0.00 min
 Lab File: VU028913.D
 Acq: 22 Dec 2018 14:36

Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.7	20.2	60.5
148	64.6	31.6	95.0



Abundance Ion 145.90 (145.60 to 146.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V





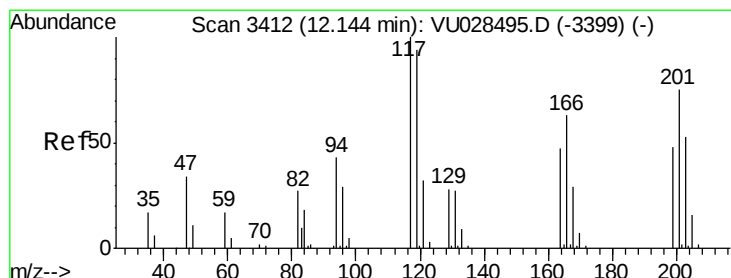
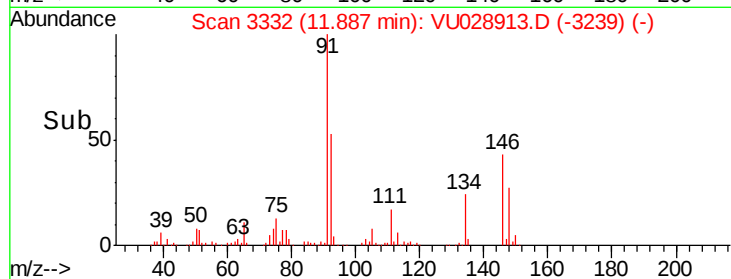
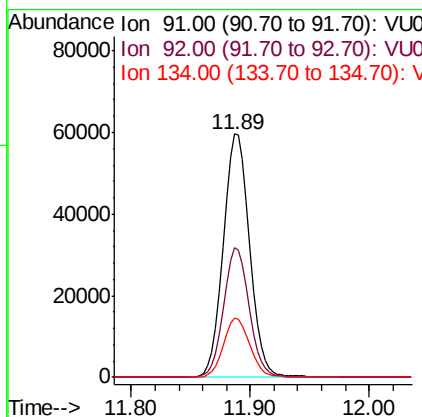
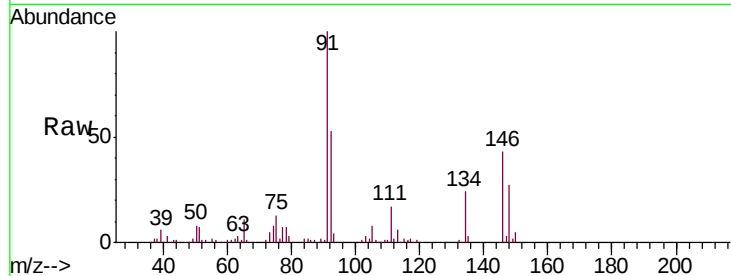
#89
n-Butylbenzene
Concen: 16.459 ug/l
RT: 11.89 min Scan# 3332
Delta R.T. -0.00 min
Lab File: VU028913.D
Acq: 22 Dec 2018 14:36

Instrument :
MSVOA_U
ClientSampleId :
VU1222MBS02

Tgt Ion	Ratio	Lower	Upper
91	100		
92	51.8	26.3	78.9
134	24.4	11.3	33.8

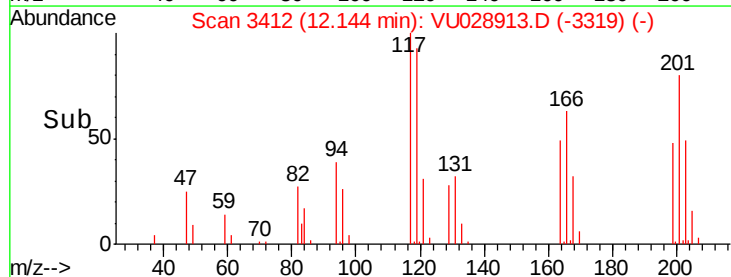
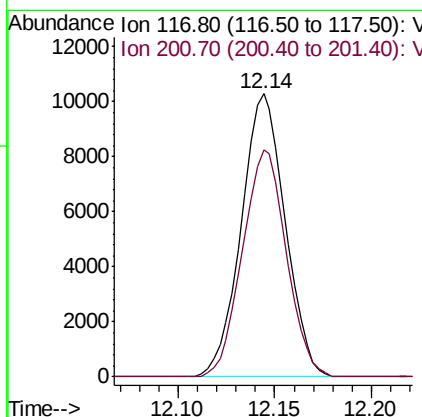
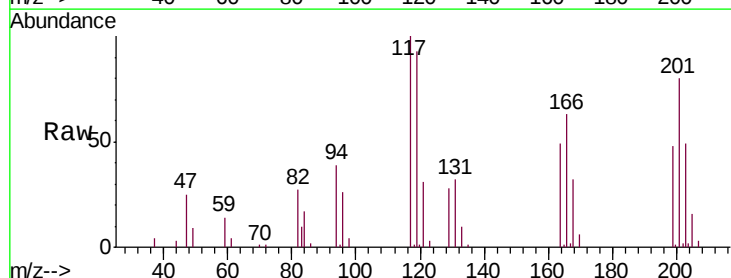
Manual Integrations
APPROVED

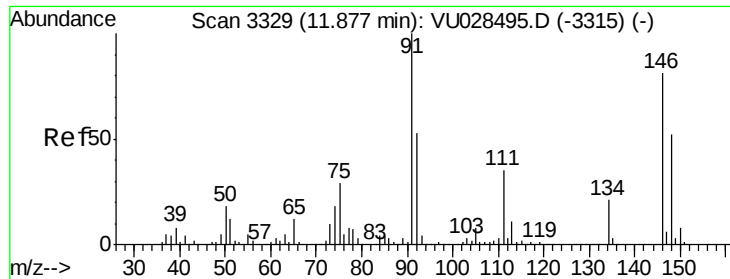
apatel
1/2/2019 10:31:23 AM



#90
Hexachloroethane
Concen: 19.558 ug/l
RT: 12.14 min Scan# 3412
Delta R.T. -0.00 min
Lab File: VU028913.D
Acq: 22 Dec 2018 14:36

Tgt Ion	Ratio	Lower	Upper
117	100		
201	80.0	38.1	114.5





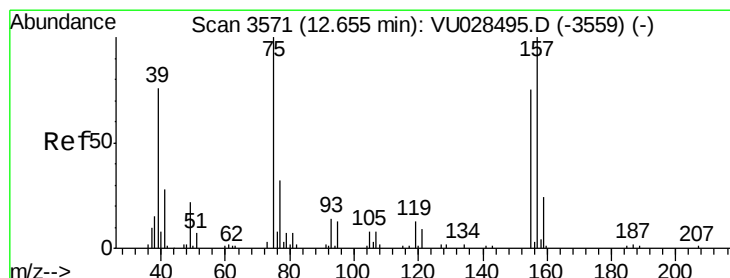
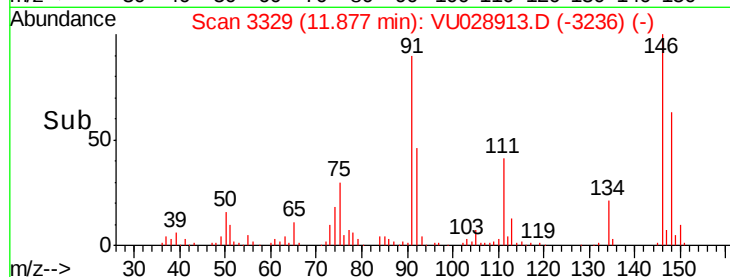
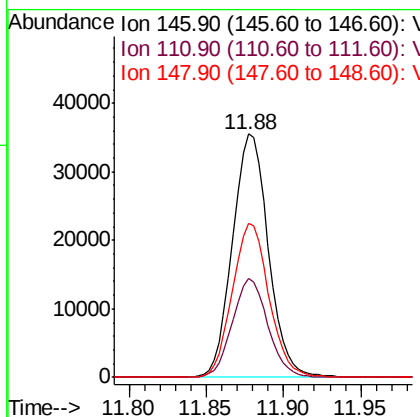
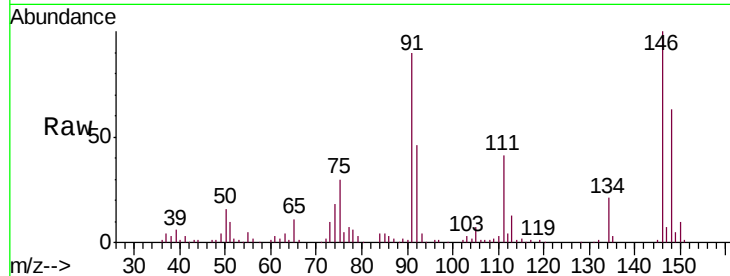
#91
 1,2-Dichlorobenzene
 Concen: 20.536 ug/l
 RT: 11.88 min Scan# 3329
 Delta R.T. -0.00 min
 Lab File: VU028913.D
 Acq: 22 Dec 2018 14:36

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1222MBS02

Tgt Ion	Ratio	Lower	Upper
146	100		
111	40.1	21.1	63.4
148	64.6	31.4	94.2

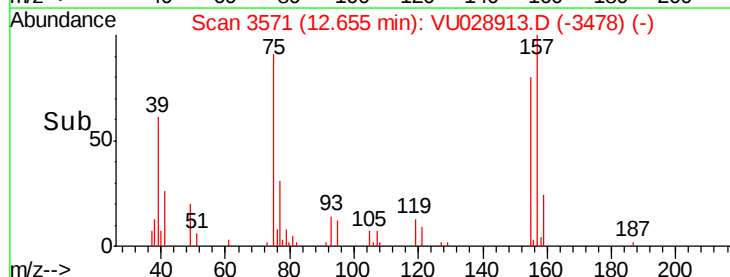
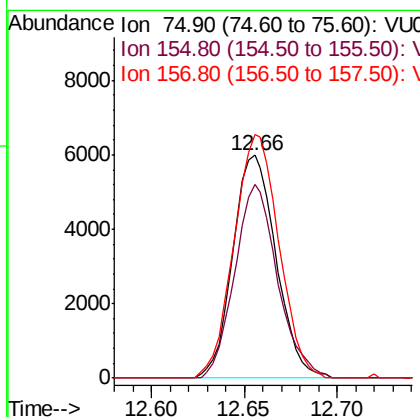
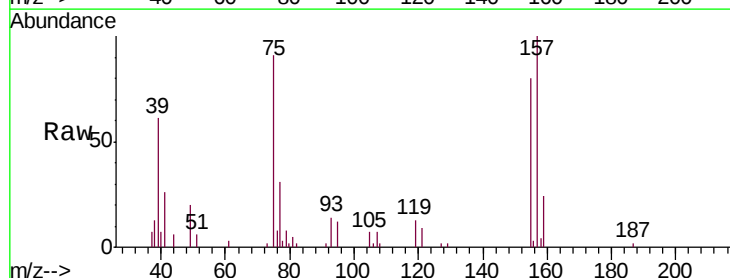
Manual Integrations
 APPROVED

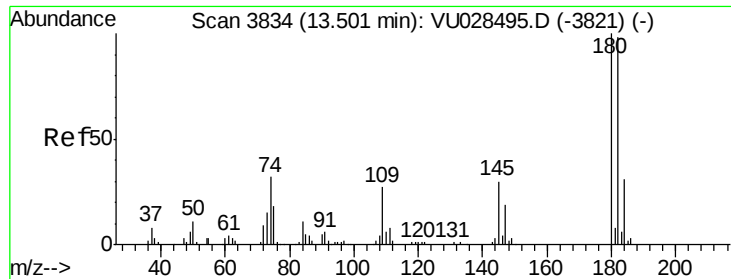
apatel
 1/2/2019 10:31:23 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 18.462 ug/l
 RT: 12.66 min Scan# 3571
 Delta R.T. -0.00 min
 Lab File: VU028913.D
 Acq: 22 Dec 2018 14:36

Tgt Ion	Ratio	Lower	Upper
75	100		
155	85.7	38.1	114.5
157	113.3	48.7	146.1





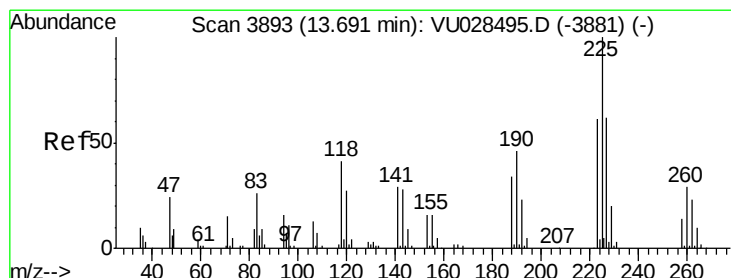
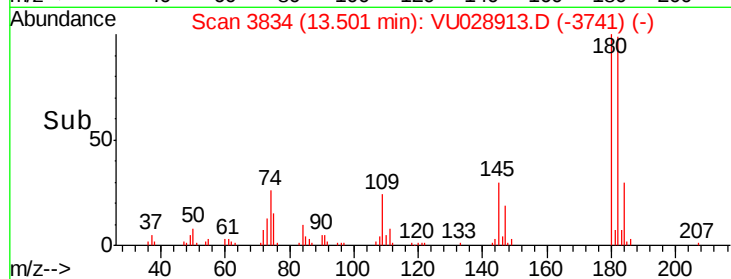
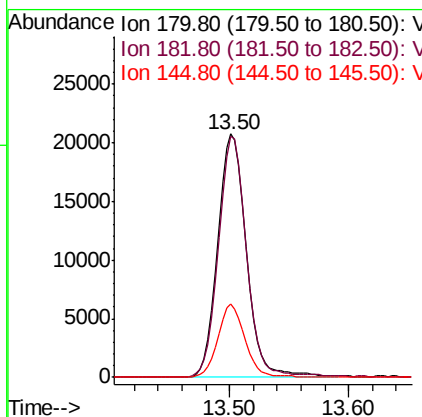
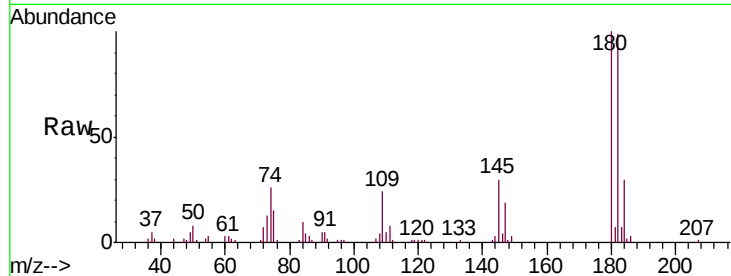
#93
 1,2,4-Trichlorobenzene
 Concen: 18.654 ug/l
 RT: 13.50 min Scan# 3834
 Delta R.T. 0.00 min
 Lab File: VU028913.D
 Acq: 22 Dec 2018 14:36

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1222MBS02

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	34738		
182	97.2	47.9	143.8	
145	28.1	15.0	45.1	

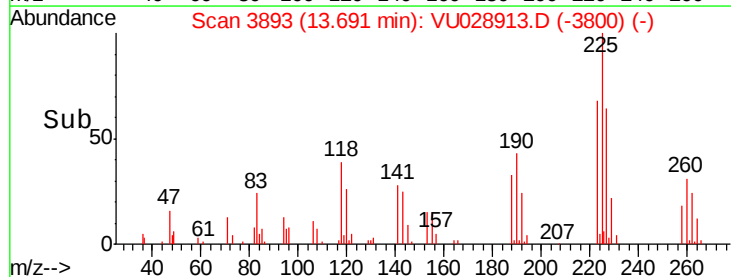
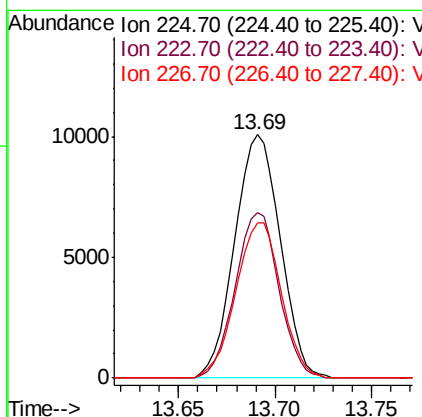
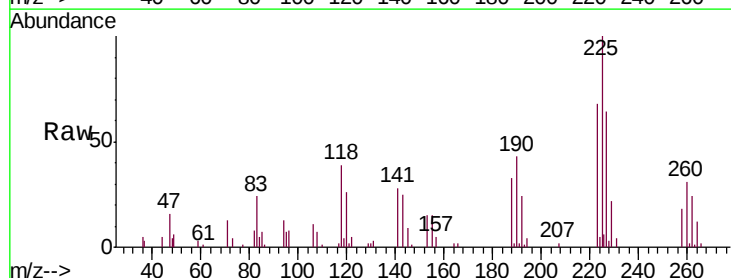
Manual Integrations
 APPROVED

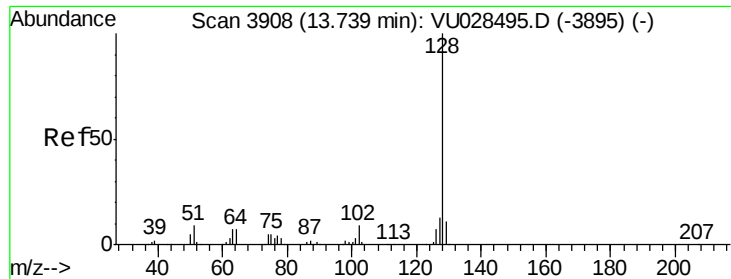
apatel
 1/2/2019 10:31:23 AM



#94
 Hexachlorobutadiene
 Concen: 18.107 ug/l
 RT: 13.69 min Scan# 3893
 Delta R.T. -0.00 min
 Lab File: VU028913.D
 Acq: 22 Dec 2018 14:36

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	16551		
223	65.1	30.4	91.2	
227	63.6	30.7	92.1	





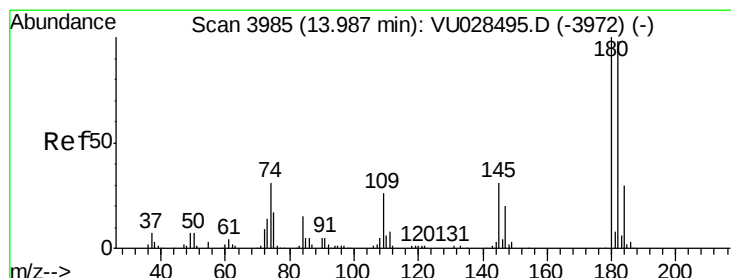
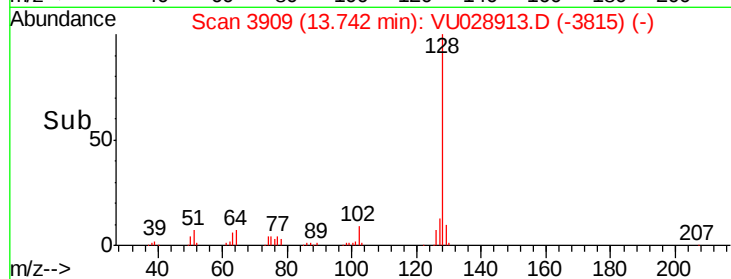
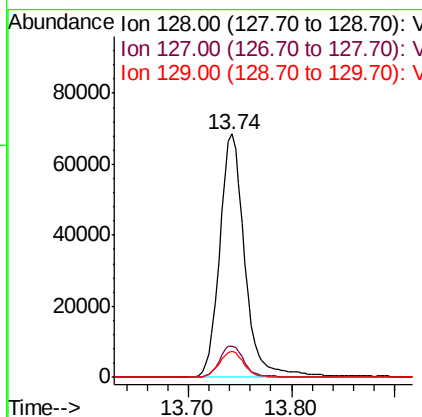
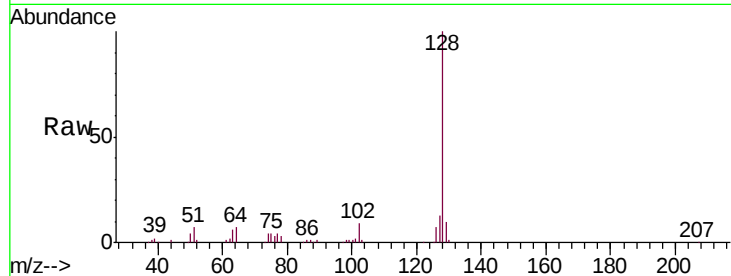
#95
Naphthalene
Concen: 17.347 ug/l
RT: 13.74 min Scan# 3909
Delta R.T. 0.00 min
Lab File: VU028913.D
Acq: 22 Dec 2018 14:36

Instrument :
MSVOA_U
ClientSampleId :
VU1222MBS02

Tgt Ion	Ratio	Resp	Lower	Upper
128	100	116155		
127	12.8	10.4	15.6	
129	10.1	8.6	13.0	

Manual Integrations
APPROVED

apatel
1/2/2019 10:31:23 AM



#96
1,2,3-Trichlorobenzene
Concen: 19.437 ug/l
RT: 13.99 min Scan# 3985
Delta R.T. 0.00 min
Lab File: VU028913.D
Acq: 22 Dec 2018 14:36

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	36923		
182	94.7	48.2	144.6	
145	29.7	15.8	47.3	

