

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU080119\
 Data File : VU033544.D
 Acq On : 01 Aug 2019 12:26
 Operator : JC/SP
 Sample : MDL07
 Misc : 5.00u/5mL/100uL/5.0mL/MSVOA_U/MEOH
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL07

Manual Integrations
 APPROVED

MMDadoda
 8/2/2019 8:29:39 AM

Quant Time: Aug 02 02:27:31 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM073119WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Aug 02 01:49:55 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.86	114	302721	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	300079	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.47	152	146067	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	93281	42.38	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	84.76%
7) Chloroethane-d5	1.67	69	81816	43.33	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	86.66%
11) 1,1-Dichloroethene-d2	2.26	63	142898	35.77	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	71.54%
21) 2-Butanone-d5	4.18	46	159940	109.72	ug/L	0.03
Spiked Amount	100.000	Range	40 - 130	Recovery	=	109.72%
24) Chloroform-d	4.62	84	175869	47.67	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	95.34%
26) 1,2-Dichloroethane-d4	5.29	65	116017	49.66	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	99.32%
32) Benzene-d6	5.32	84	349002	46.92	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	93.84%
36) 1,2-Dichloropropane-d6	6.31	67	113959	48.87	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	97.74%
41) Toluene-d8	7.55	98	312809	44.87	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	89.74%
43) trans-1,3-Dichloropropene-	7.83	79	51577	44.59	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	89.18%
47) 2-Hexanone-d5	8.30	63	114716	103.61	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	103.61%
57) 1,1,2,2-Tetrachloroethane-	10.41	84	175384	48.78	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	97.56%
64) 1,2-Dichlorobenzene-d4	11.85	152	128983	48.22	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	96.44%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	1.20	85	7379	2.585	ug/L	95
3) Chloromethane	1.32	50	8676	3.017	ug/L	99
5) Vinyl chloride	1.39	62	9228	2.994	ug/L	85
6) Bromomethane	1.62	94	5433	1.998	ug/L	93
8) Chloroethane	1.69	64	5858	3.127	ug/L	91
9) Trichlorofluoromethane	1.87	101	11740	2.911	ug/L	97
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	6854	3.353	ug/L #	85
12) 1,1-Dichloroethene	2.27	96	6786	3.462	ug/L #	1
13) Acetone	2.34	43	8467m	5.677	ug/L	
14) Carbon disulfide	2.46	76	16609	2.701	ug/L	99
15) Methyl Acetate	2.62	43	6918	2.914	ug/L	95
16) Methylene chloride	2.68	84	6577	2.937	ug/L	97
17) trans-1,2-Dichloroethene	2.97	96	5647	2.749	ug/L	93
18) Methyl tert-butyl Ether	2.98	73	16026	2.559	ug/L	99
19) 1,1-Dichloroethane	3.42	63	10277	2.666	ug/L	96
20) cis-1,2-Dichloroethene	4.21	96	6326m	2.744	ug/L	
22) 2-Butanone	4.27	43	10095m	5.670	ug/L	

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.53	128	3312	2.754	uq/L	93
25) Chloroform	4.65	83	14636	3.608	uq/L	92
27) 1,2-Dichloroethane	5.39	62	9128	2.922	uq/L #	94
29) Cyclohexane	4.97	56	8040	2.456	uq/L	95
30) 1,1,1-Trichloroethane	4.89	97	9568	2.771	uq/L	97
31) Carbon tetrachloride	5.11	117	7627	2.537	uq/L	95
33) Benzene	5.37	78	23054	2.663	uq/L	100
34) Trichloroethene	6.17	95	6650	2.912	uq/L	96
35) Methylcyclohexane	6.40	83	8464	2.375	uq/L	98
37) 1,2-Dichloropropane	6.41	63	6644	2.867	uq/L	99
38) Bromodichloromethane	6.74	83	8109	2.707	uq/L	90
39) cis-1,3-Dichloropropene	7.25	75	8645	2.390	uq/L	97
40) 4-Methyl-2-pentanone	7.45	43	16294	5.093	uq/L	95
42) Toluene	7.62	91	24249	2.605	uq/L	100
44) trans-1,3-Dichloropropene	7.86	75	8612	2.635	uq/L	96
45) 1,1,2-Trichloroethane	8.05	97	6052	2.751	uq/L	96
46) Tetrachloroethene	8.21	164	4729	2.537	uq/L	97
48) 2-Hexanone	8.35	43	17004	6.575	uq/L	92
49) Dibromochloromethane	8.46	129	6348	2.536	uq/L	100
50) 1,2-Dibromoethane	8.57	107	6175	2.534	uq/L	99
51) Chlorobenzene	9.10	112	15687	2.574	uq/L	90
52) Ethylbenzene	9.23	91	23792	2.374	uq/L	93
53) m,p-Xylene	9.36	106	8714	2.265	uq/L	92
54) o-xylene	9.76	106	8186	2.193	uq/L	95
55) Styrene	9.78	104	13630	2.150	uq/L	98
56) Isopropylbenzene	10.15	105	21147	2.168	uq/L	98
58) 1,1,1,2,2-Tetrachloroethane	10.44	83	11910	3.002	uq/L	96
59) 1,2,3-Trichloropropane	10.48	75	7971	2.606	uq/L	95
61) Bromoform	9.94	173	4849	2.748	uq/L	100
62) 1,3-Dichlorobenzene	11.40	146	11438	2.550	uq/L	90
63) 1,4-Dichlorobenzene	11.49	146	12944	2.777	uq/L	98
65) 1,2-Dichlorobenzene	11.86	146	13360	2.946	uq/L	98
66) 1,2-Dibromo-3-chloropropan	12.65	75	2265	2.703	uq/L	91
67) 1,3,5-Trichlorobenzene	12.88	180	8816	2.436	uq/L	98
68) 1,2,4-trichlorobenzene	13.50	180	6103m	1.974	uq/L	
69) Naphthalene	13.74	128	14706m	1.658	uq/L	
70) 1,2,3-Trichlorobenzene	13.98	180	7097	2.182	uq/L	92

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

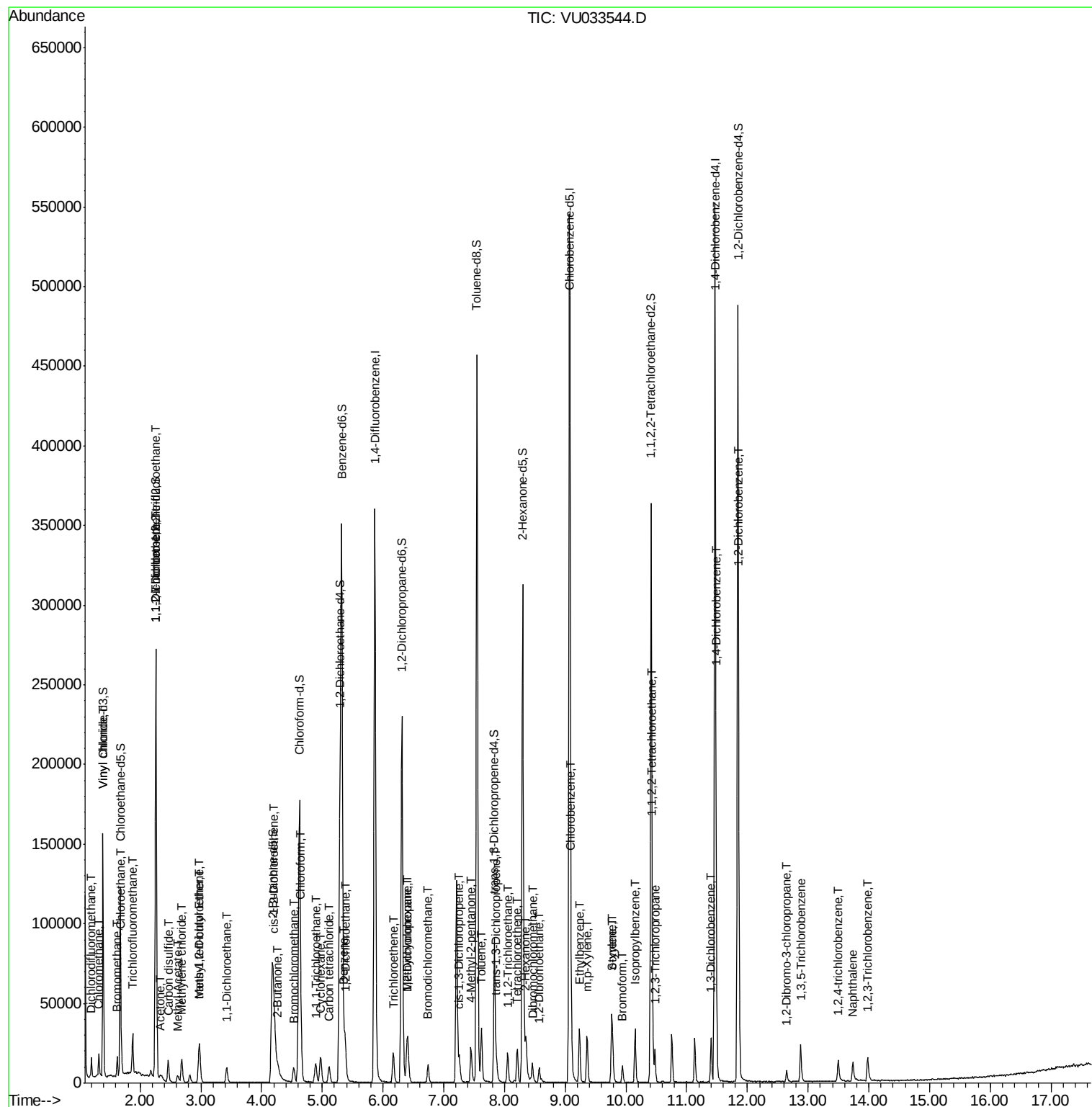
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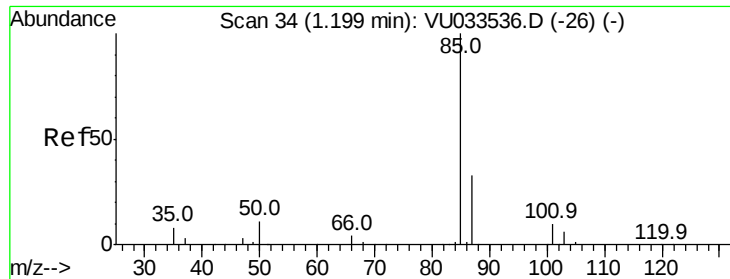
Instrument :
MSVOA_U
ClientSampleID :
MDL07

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#2

Dichlorodifluoromethane

Concen: 2.585 ug/L

RT: 1.20 min Scan# 33

Delta R.T. -0.00 min

Lab File: VU033544.D

Acq: 01 Aug 2019 12:26

Instrument :

MSVOA_U

ClientSampleId :

MDL07

Tot Ion: 85 Resp: 7379

Ion Ratio Lower Upper

85 100

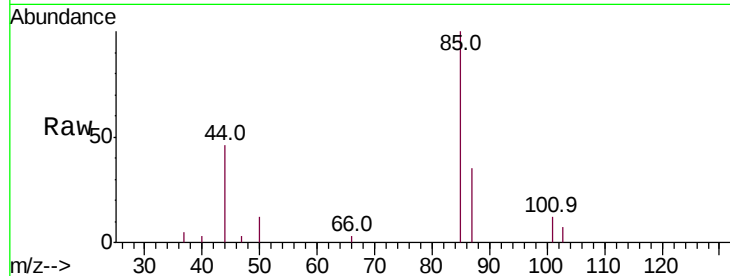
87 34.5 25.4 38.2

Manual Integrations

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Abundance Ion 85.00 (84.70 to 85.70): VU0

Ion 87.00 (86.70 to 87.70): VU0

8000

6000

4000

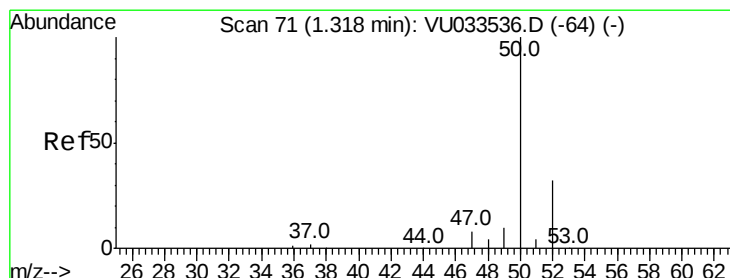
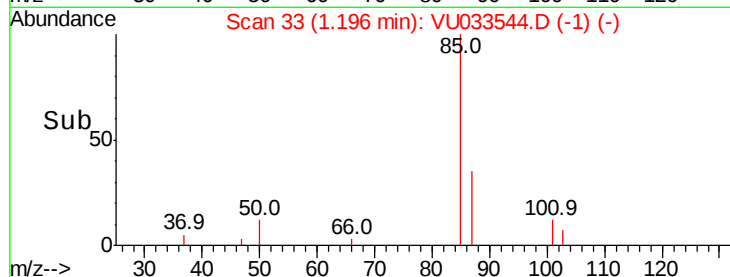
2000

0

1.20

1.25

Time-->



#3

Chloromethane

Concen: 3.017 ug/L

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VU033544.D

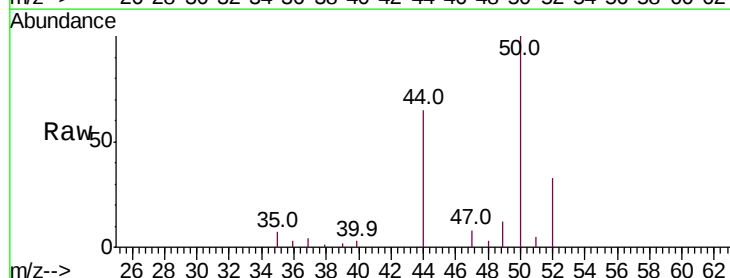
Acq: 01 Aug 2019 12:26

Tgt Ion: 50 Resp: 8676

Ion Ratio Lower Upper

50 100

52 33.3 23.1 42.9



Abundance Ion 50.00 (49.70 to 50.70): VU0

Ion 52.00 (51.70 to 52.70): VU0

8000

6000

4000

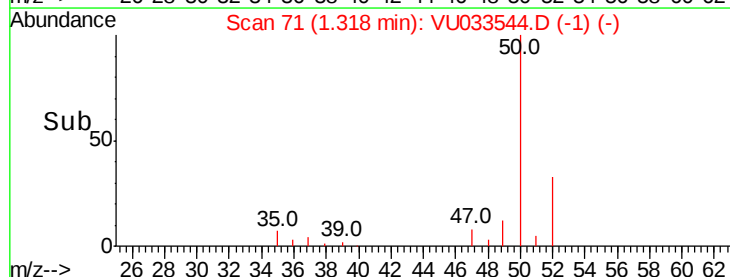
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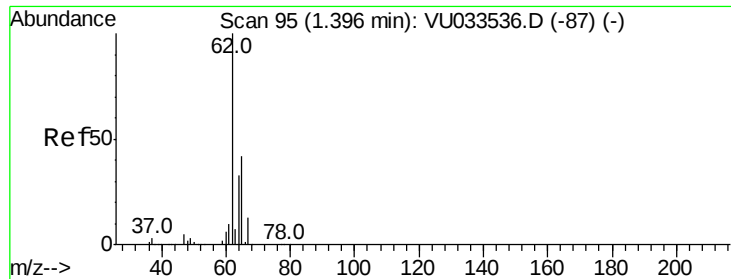
0

1.32

1.36

Time-->





#5

Vinyl chloride

Concen: 2.994 ug/L

RT: 1.39 min Scan# 94

Delta R.T. -0.00 min

Lab File: VU033544.D

Acq: 01 Aug 2019 12:26

Instrument :

MSVOA_U

ClientSampleId :

MDL07

Tot Ion: 62 Resp: 9228

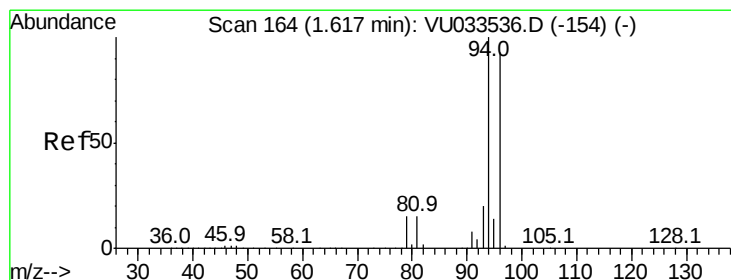
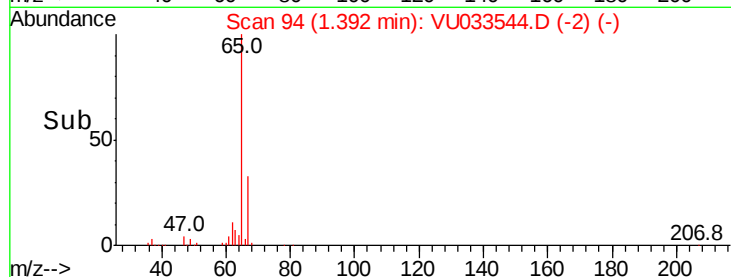
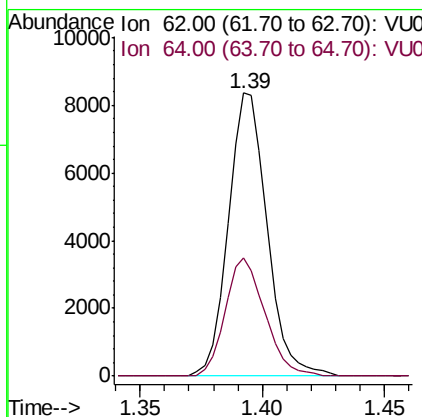
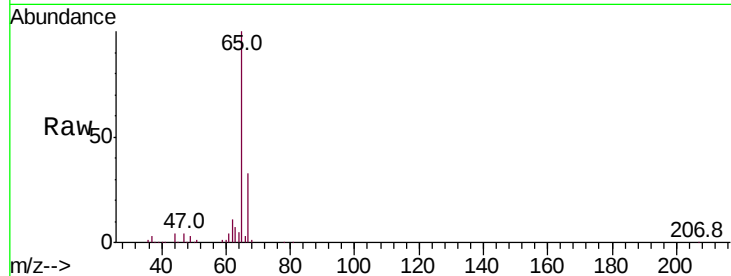
Ion Ratio Lower Upper

62 100

64 41.9 23.4 43.4

Manual Integrations
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#6

Bromomethane

Concen: 1.998 ug/L

RT: 1.62 min Scan# 166

Delta R.T. 0.01 min

Lab File: VU033544.D

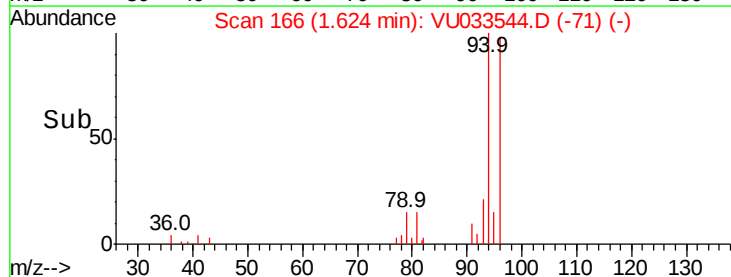
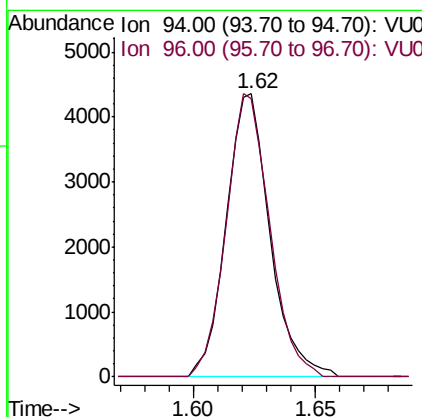
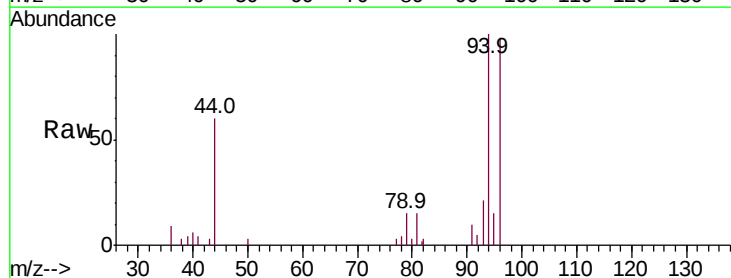
Acq: 01 Aug 2019 12:26

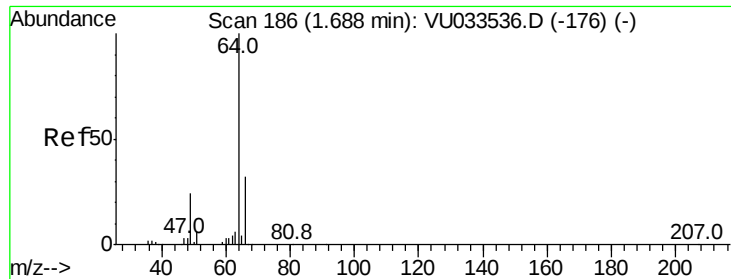
Tgt Ion: 94 Resp: 5433

Ion Ratio Lower Upper

94 100

96 98.3 64.4 119.6





#8

Chloroethane

Concen: 3.127 ug/L

RT: 1.69 min Scan# 187

Delta R.T. 0.00 min

Lab File: VU033544.D

Acq: 01 Aug 2019 12:26

Instrument :

MSVOA_U

ClientSampled :

MDL07

Tot Ion: 64 Resp: 5858

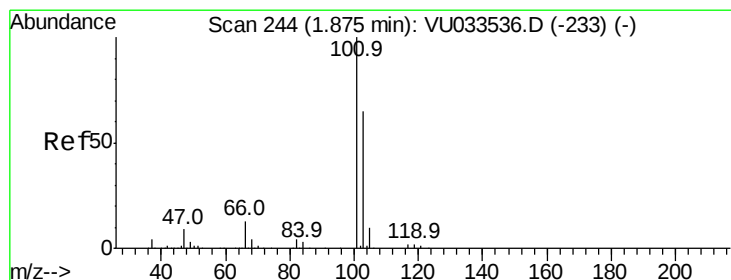
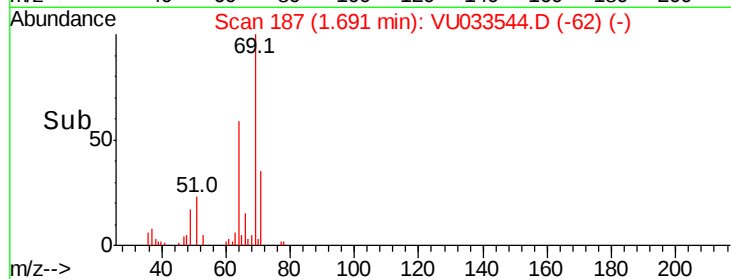
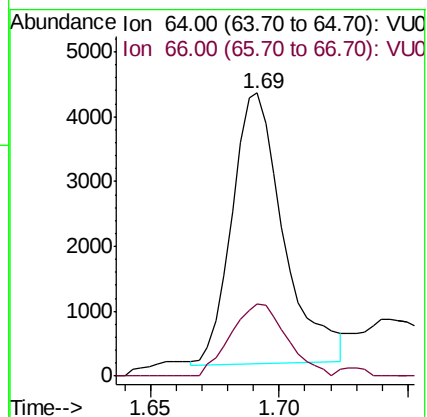
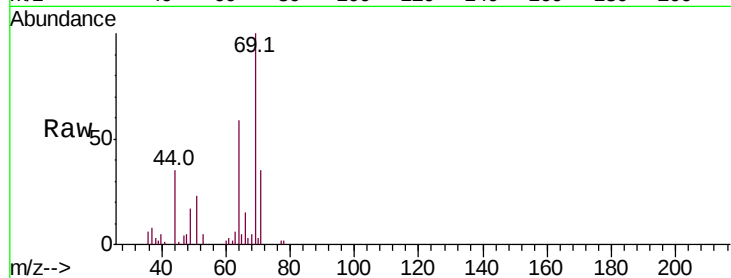
Ion Ratio Lower Upper

64 100

66 25.6 21.1 39.3

Manual Integrations
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#9

Trichlorofluoromethane

Concen: 2.911 ug/L

RT: 1.87 min Scan# 244

Delta R.T. 0.00 min

Lab File: VU033544.D

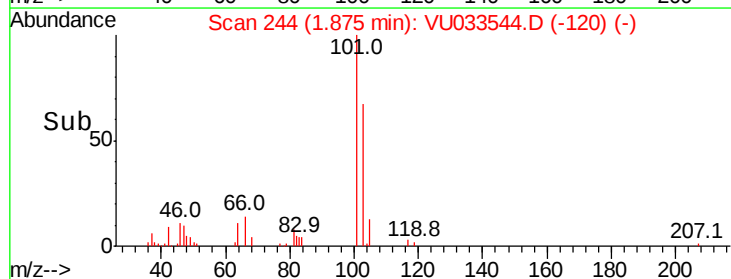
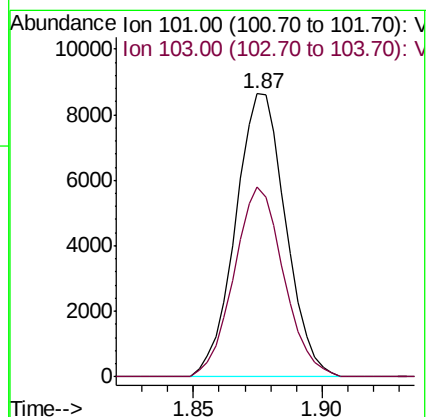
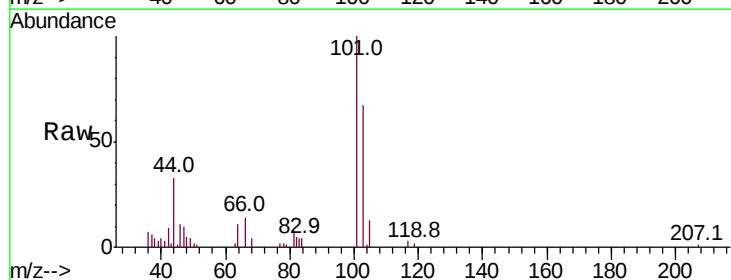
Acq: 01 Aug 2019 12:26

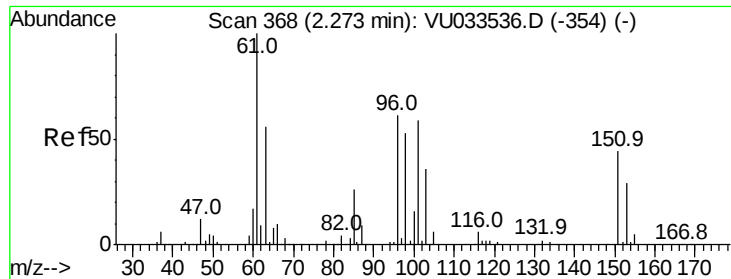
Tgt Ion: 101 Resp: 11740

Ion Ratio Lower Upper

101 100

103 66.5 51.6 77.4





#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 3.353 ug/L

RT: 2.27 min Scan# 367

Delta R.T. -0.00 min

Lab File: VU033544.D

Acq: 01 Aug 2019 12:26

Instrument :

MSVOA_U

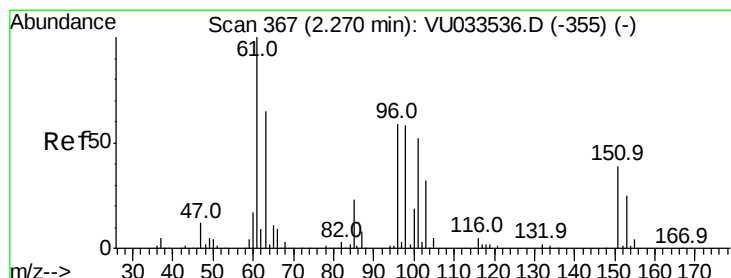
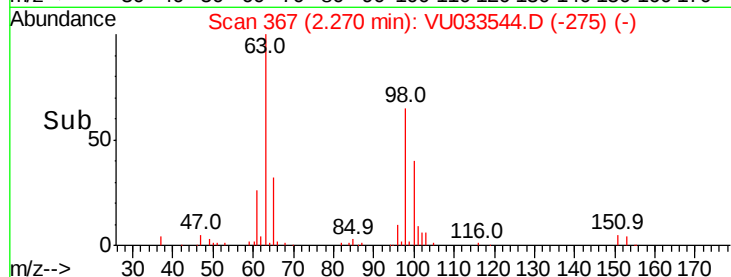
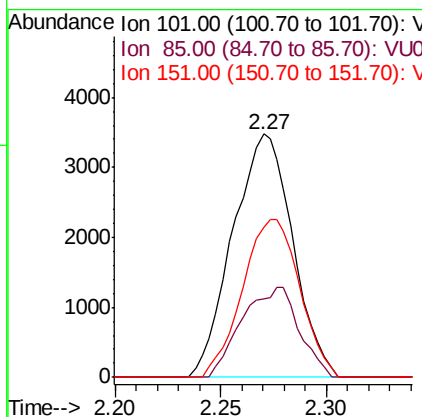
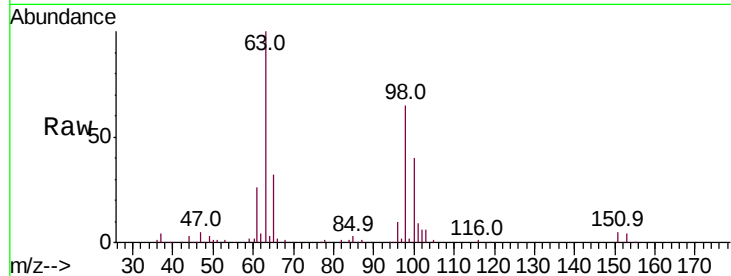
ClientSampleId :

MDL07

Tot Ion:	101	Resp:	6854
Ion Ratio	Lower	Upper	
101	100		
85	35.3	35.8	53.8#
151	62.1	60.1	90.1

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#12

1,1-Dichloroethene

Concen: 3.462 ug/L

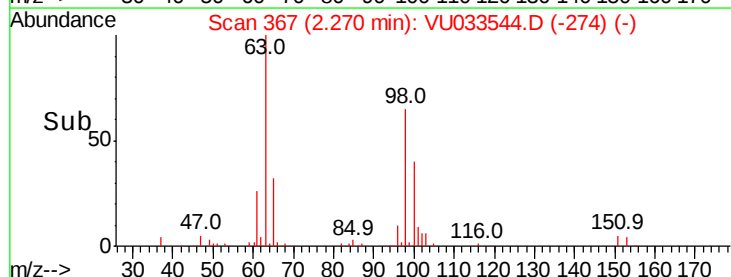
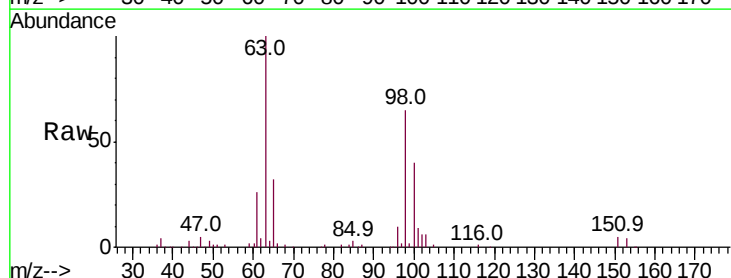
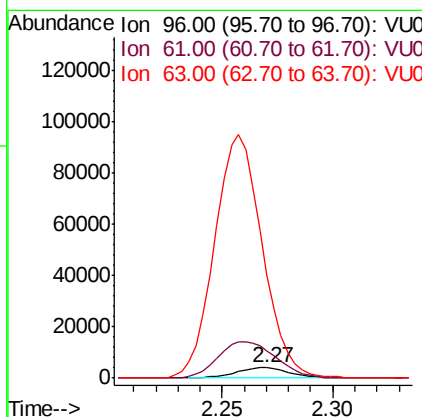
RT: 2.27 min Scan# 367

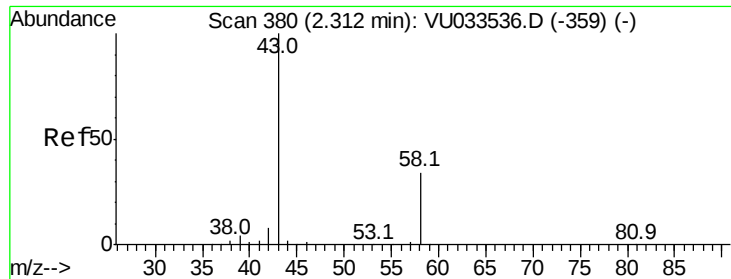
Delta R.T. 0.00 min

Lab File: VU033544.D

Acq: 01 Aug 2019 12:26

Tgt Ion:	96	Resp:	6786
Ion Ratio	Lower	Upper	
96	100		
61	261.2	119.3	221.5#
63	987.4	86.6	160.8#





#13

Acetone

Concen: 5.677 ug/L m

RT: 2.34 min Scan# 389

Delta R.T. 0.03 min

Lab File: VU033544.D

Acq: 01 Aug 2019 12:26

Instrument :

MSVOA_U

ClientSampleId :

MDL07

Tot Ion: 43 Resp: 8467

Ion Ratio Lower Upper

43 100

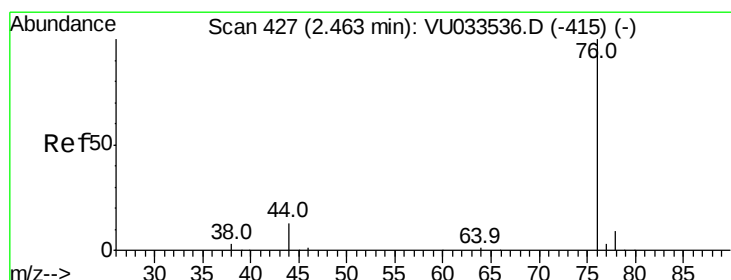
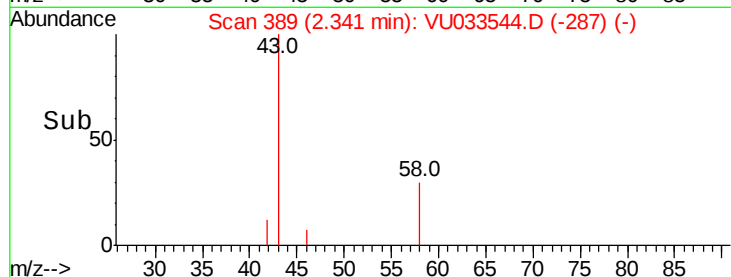
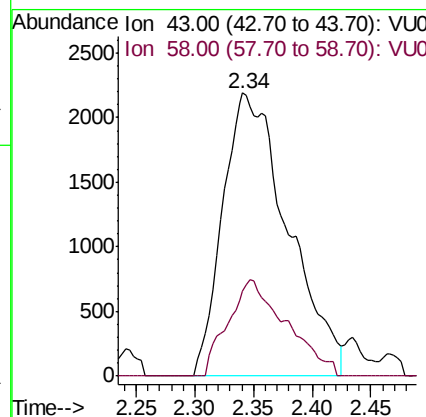
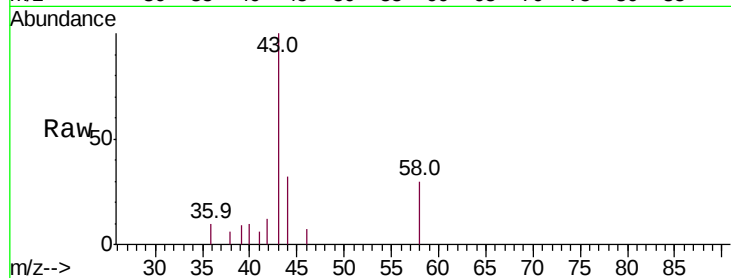
58 22.8 0.0 66.2

Manual Integrations

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#14

Carbon disulfide

Concen: 2.701 ug/L

RT: 2.46 min Scan# 427

Delta R.T. 0.00 min

Lab File: VU033544.D

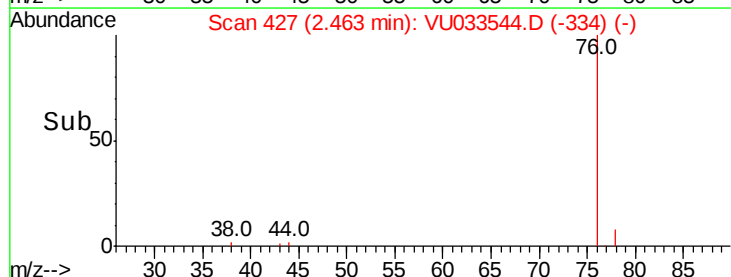
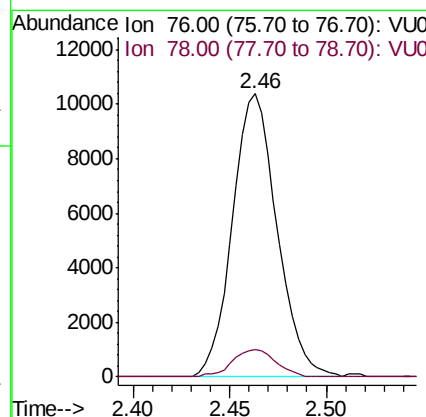
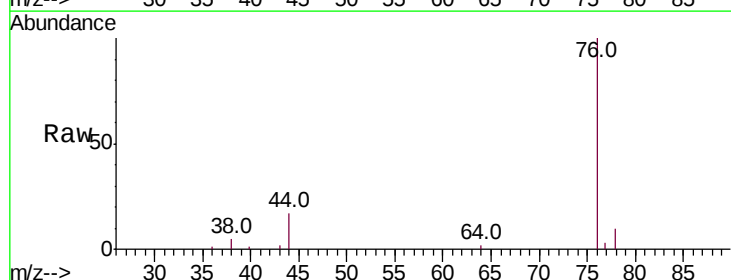
Acq: 01 Aug 2019 12:26

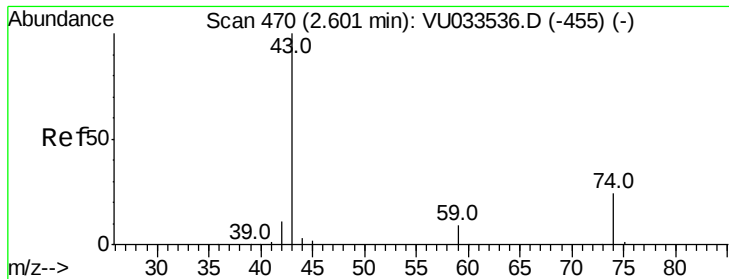
Tgt Ion: 76 Resp: 16609

Ion Ratio Lower Upper

76 100

78 9.5 7.4 11.0





#15

Methyl Acetate

Concen: 2.914 ug/L

RT: 2.62 min Scan# 475

Delta R.T. 0.02 min

Lab File: VU033544.D

Acq: 01 Aug 2019 12:26

Instrument :

MSVOA_U

ClientSampled :

MDL07

Tot Ion: 43 Resp: 6918

Ion Ratio Lower Upper

43 100

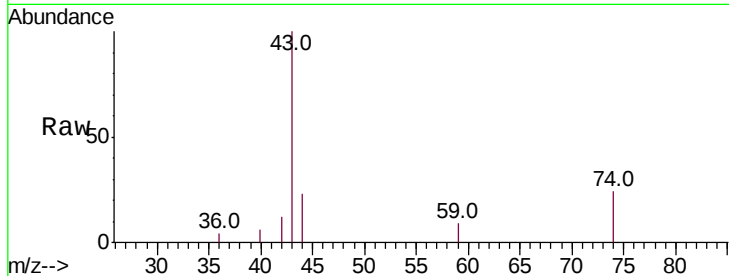
74 22.5 20.1 30.1

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8/2/2019 8:29:39 AM



Abundance Ion 43.00 (42.70 to 43.70): VU033536.D (-455) (-)

Ion 74.00 (73.70 to 74.70): VU033536.D (-455) (-)

2.62

2500

2000

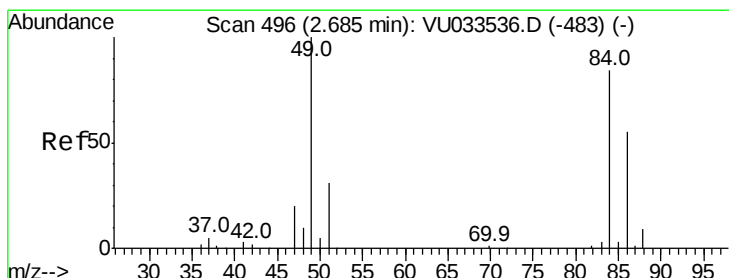
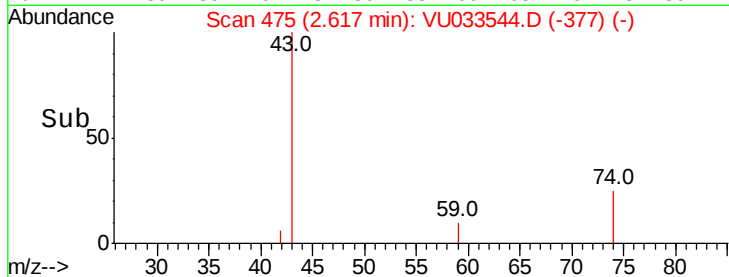
1500

1000

500

0

Time-->



#16

Methylene chloride

Concen: 2.937 ug/L

RT: 2.68 min Scan# 496

Delta R.T. 0.00 min

Lab File: VU033544.D

Acq: 01 Aug 2019 12:26

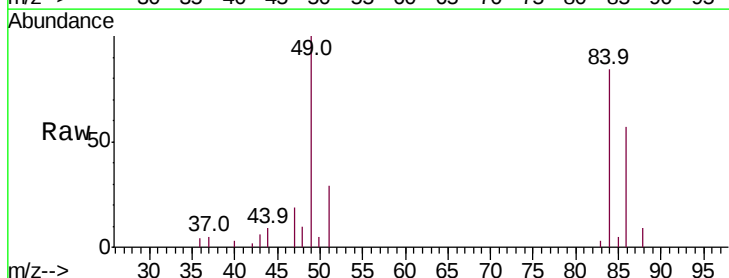
Tgt Ion: 84 Resp: 6577

Ion Ratio Lower Upper

84 100

86 68.1 45.7 84.9

49 118.9 85.0 158.0



Abundance Ion 84.00 (83.70 to 84.70): VU033536.D (-483) (-)

Ion 86.00 (85.70 to 86.70): VU033536.D (-483) (-)

Ion 49.00 (48.70 to 49.70): VU033536.D (-483) (-)

5000

4000

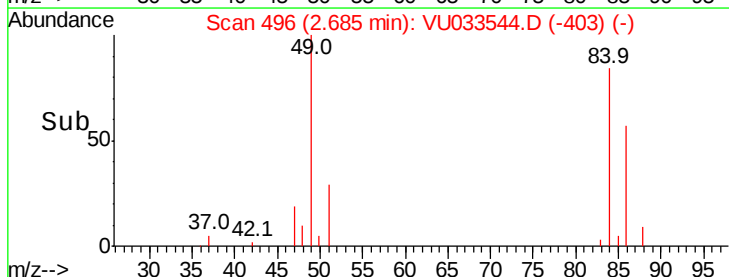
3000

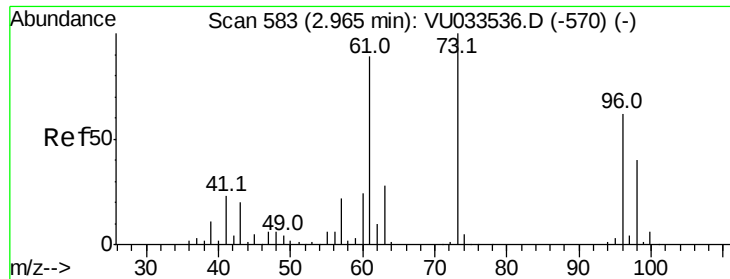
2000

1000

0

Time-->





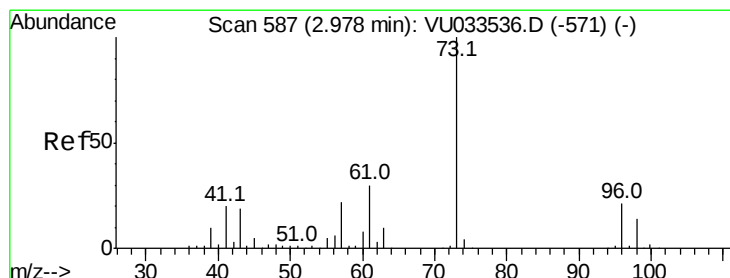
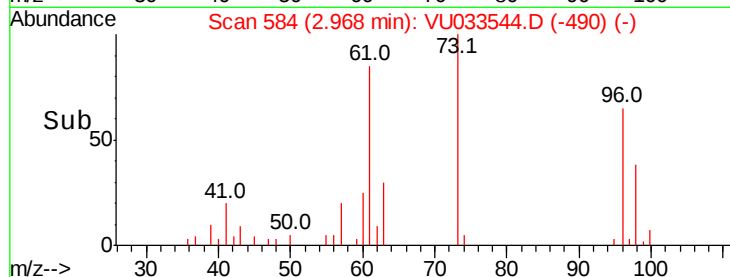
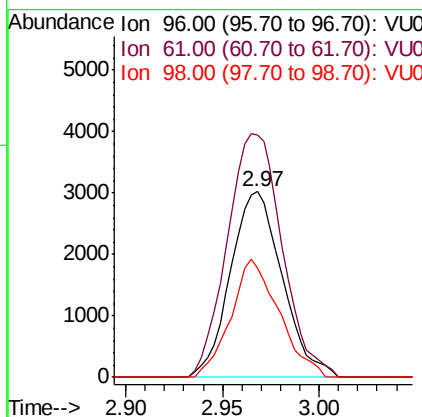
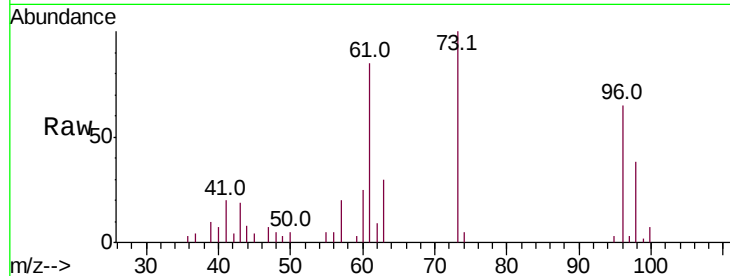
#17
trans-1,2-Dichloroethene
Concen: 2.749 ug/L
RT: 2.97 min Scan# 584
Delta R.T. 0.00 min
Lab File: VU033544.D
Acq: 01 Aug 2019 12:26

Instrument :
MSVOA_U
ClientSampled :
MDL07

Tot Ion	Ratio	Lower	Upper
96	100		
61	130.9	98.3	182.5
98	59.1	44.3	82.3

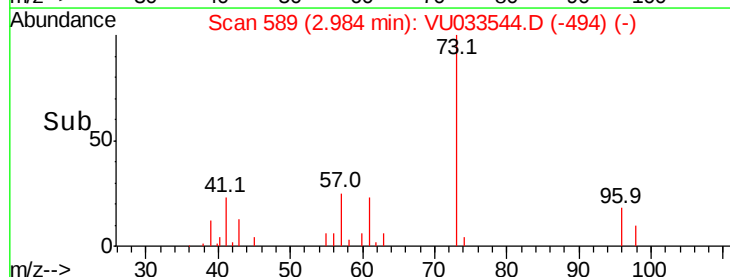
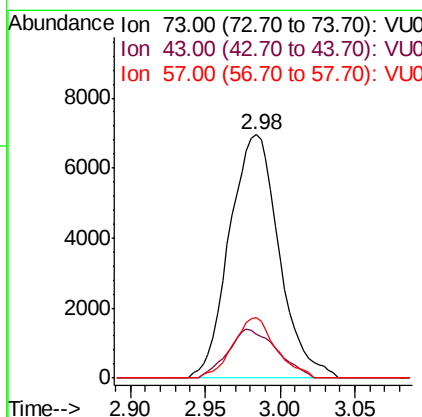
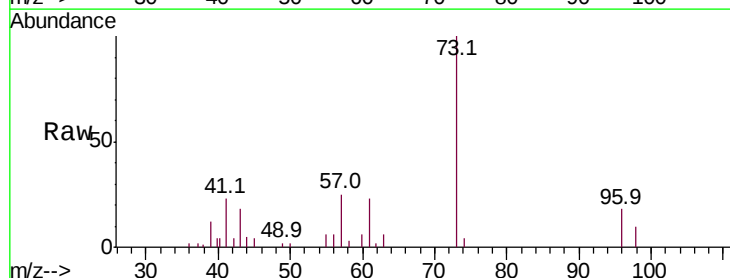
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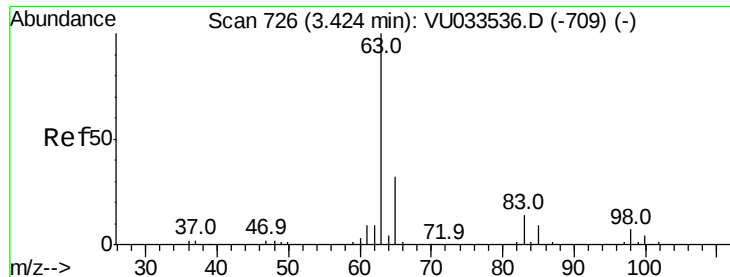
MMDadoda
8/2/2019 8:29:39 AM



#18
Methyl tert-butyl Ether
Concen: 2.559 ug/L
RT: 2.98 min Scan# 589
Delta R.T. 0.01 min
Lab File: VU033544.D
Acq: 01 Aug 2019 12:26

Tgt Ion	Ratio	Lower	Upper
73	100		
43	20.1	15.4	23.2
57	21.6	17.4	26.2





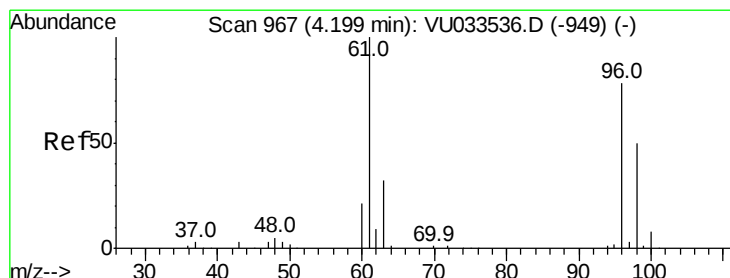
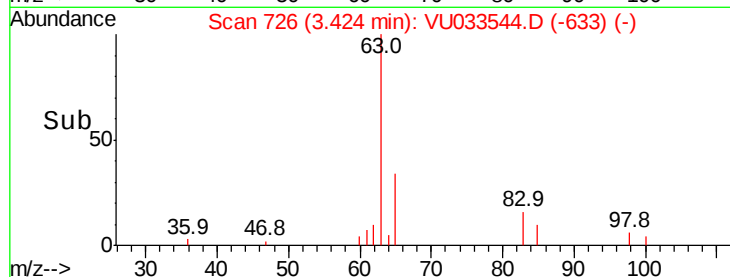
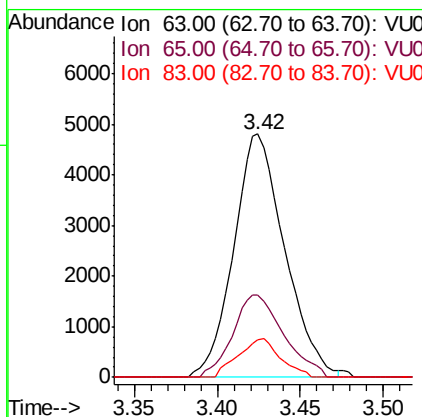
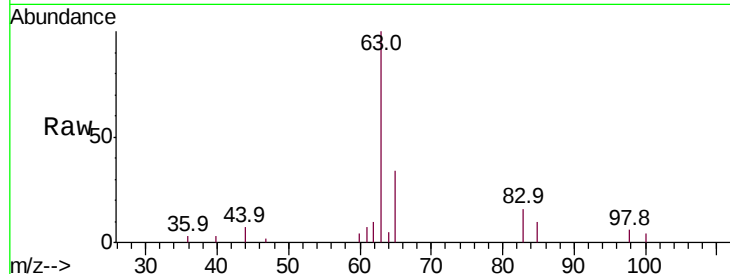
#19
 1,1-Dichloroethane
 Concen: 2.666 ug/L
 RT: 3.42 min Scan# 726
 Delta R.T. 0.00 min
 Lab File: VU033544.D
 Acq: 01 Aug 2019 12:26

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL07

Tot Ion:	63	Resp:	10277
Ion	Ratio	Lower	Upper
63	100		
65	33.6	22.0	40.8
83	15.6	9.5	17.7

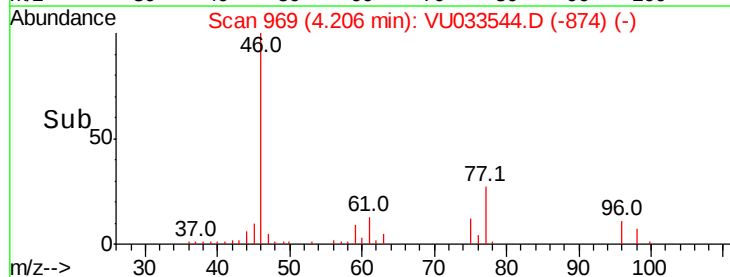
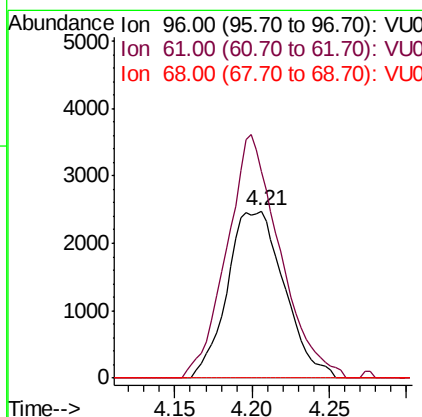
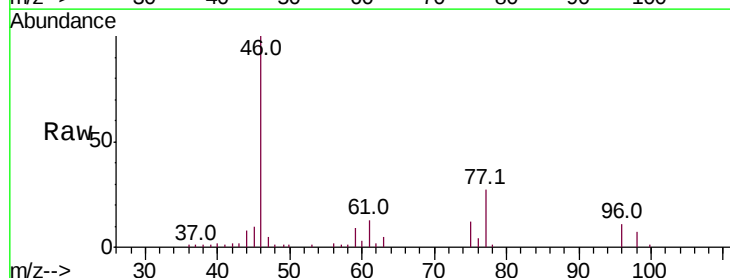
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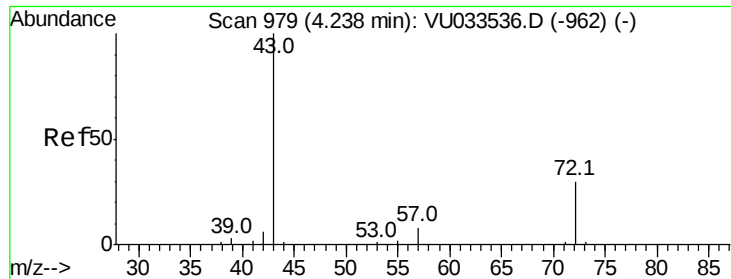
MMDadoda
 8/2/2019 8:29:39 AM



#20
 cis-1,2-Dichloroethene
 Concen: 2.744 ug/L m
 RT: 4.21 min Scan# 969
 Delta R.T. 0.01 min
 Lab File: VU033544.D
 Acq: 01 Aug 2019 12:26

Tgt Ion:	96	Resp:	6326
Ion	Ratio	Lower	Upper
96	100		
61	123.8	91.3	169.6
68	0.0	0.0	0.0





#22

2-Butanone

Concen: 5.670 ug/L m

RT: 4.27 min Scan# 989

Delta R.T. 0.03 min

Lab File: VU033544.D

Acq: 01 Aug 2019 12:26

Instrument :

MSVOA_U

ClientSampled :

MDL07

Tot Ion: 43 Resp: 10095

Ion Ratio Lower Upper

43 100

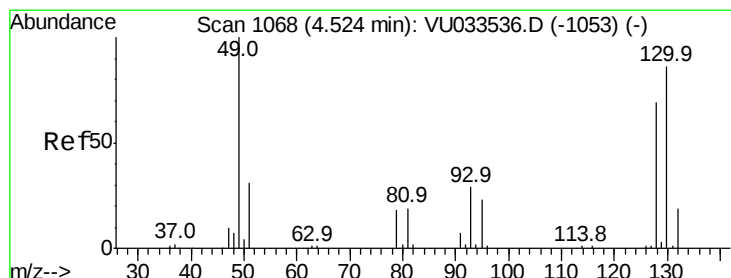
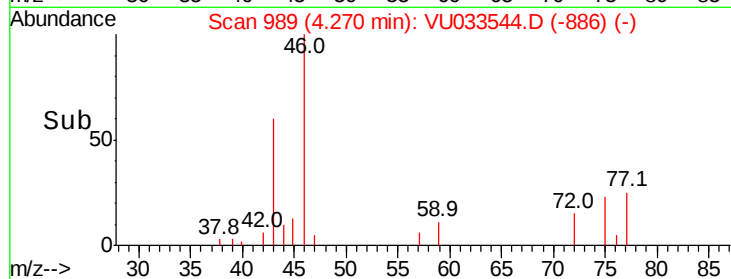
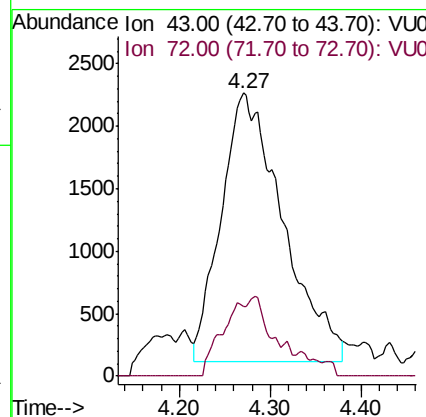
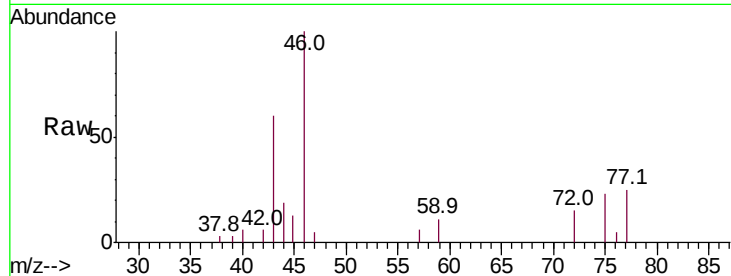
72 0.4 14.2 42.6#

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MMDadoda

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#23

Bromochloromethane

Concen: 2.754 ug/L

RT: 4.53 min Scan# 1069

Delta R.T. 0.00 min

Lab File: VU033544.D

Acq: 01 Aug 2019 12:26

Tgt Ion: 128 Resp: 3312

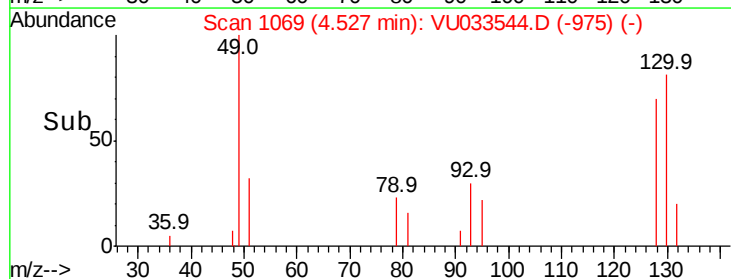
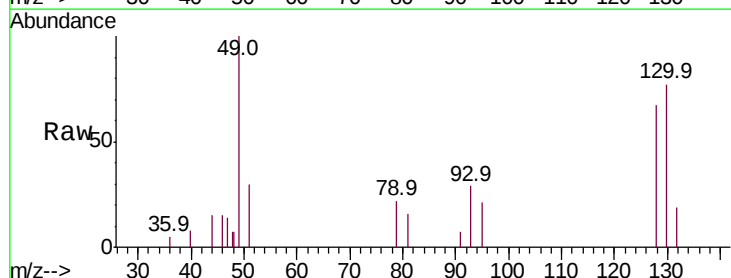
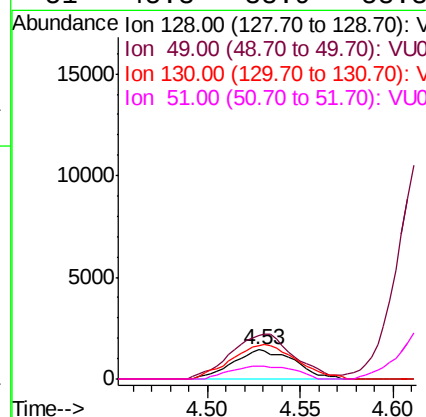
Ion Ratio Lower Upper

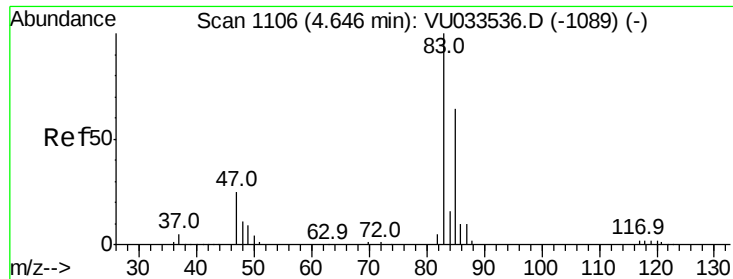
128 100

49 149.2 108.4 201.2

130 115.6 89.7 166.5

51 45.3 38.9 58.3





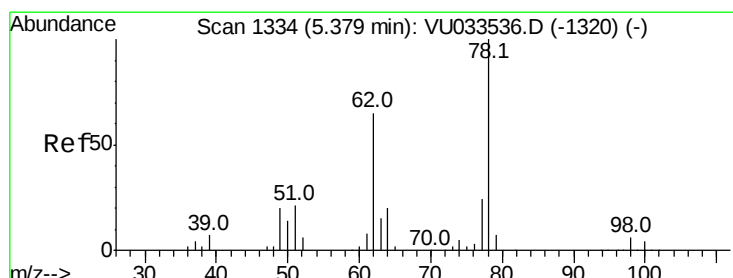
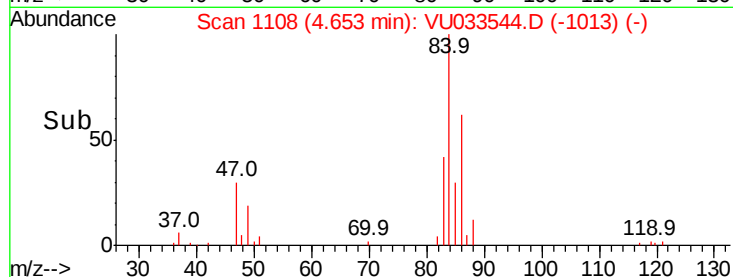
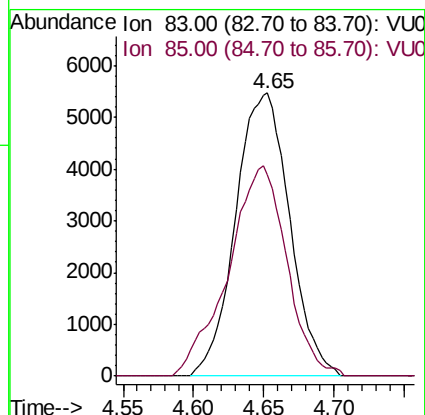
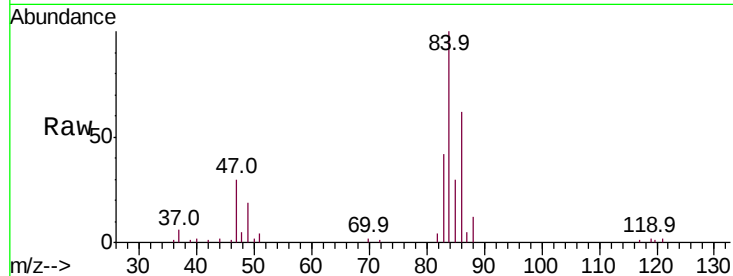
#25
Chloroform
Concen: 3.608 ug/L
RT: 4.65 min Scan# 1108
Delta R.T. 0.01 min
Lab File: VU033544.D
Acq: 01 Aug 2019 12:26

Instrument :
MSVOA_U
ClientSampleId :
MDL07

Tot Ion: 83 Resp: 14636
Ion Ratio Lower Upper
83 100
85 71.4 45.6 84.8

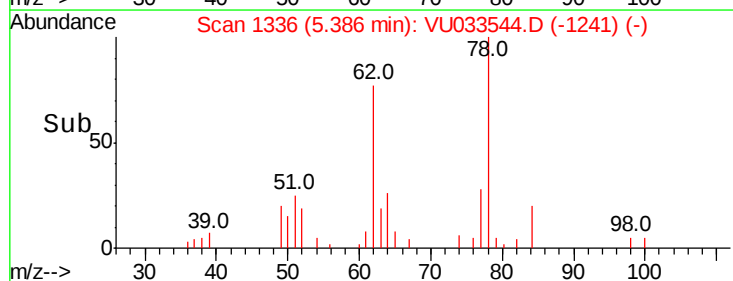
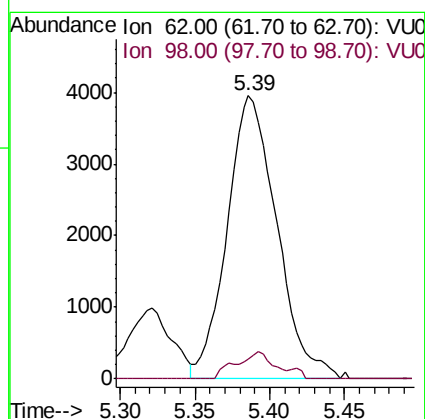
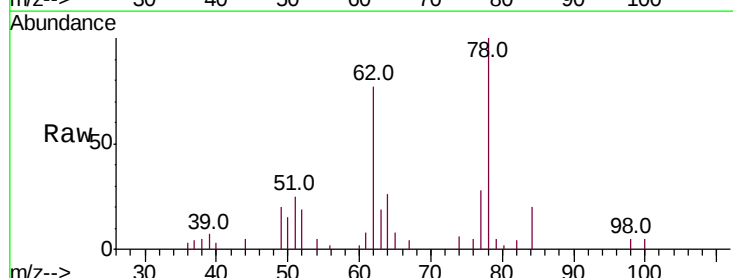
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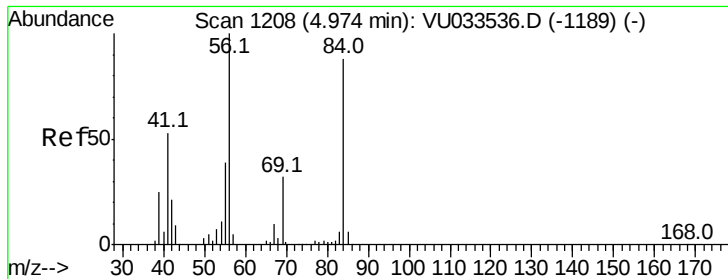
MMDadoda
8/2/2019 8:29:39 AM



#27
1,2-Dichloroethane
Concen: 2.922 ug/L
RT: 5.39 min Scan# 1336
Delta R.T. 0.01 min
Lab File: VU033544.D
Acq: 01 Aug 2019 12:26

Tgt Ion: 62 Resp: 9128
Ion Ratio Lower Upper
62 100
98 6.8 7.2 10.8#





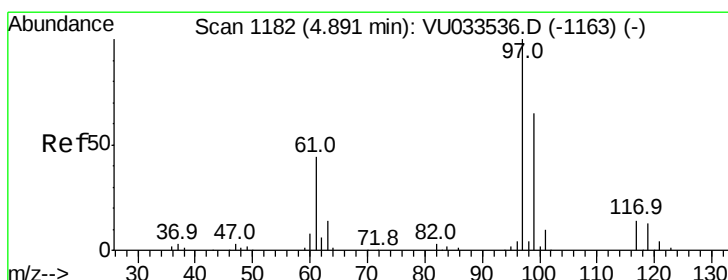
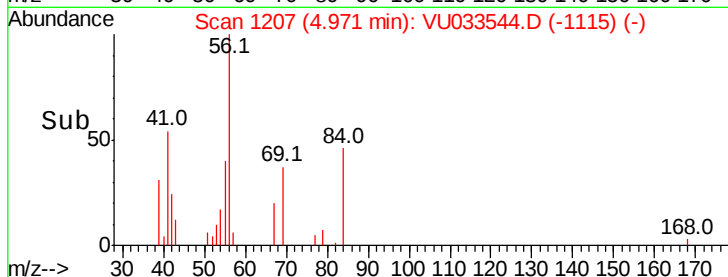
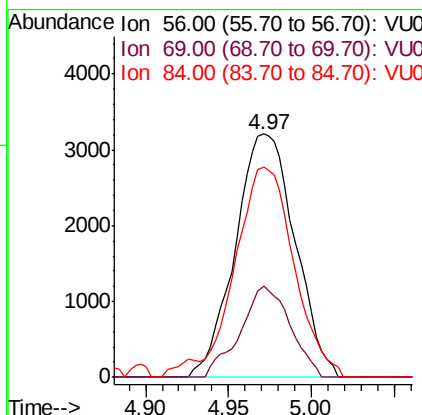
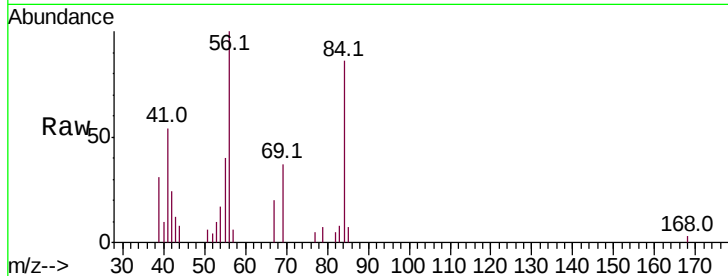
#29
Cyclohexane
Concen: 2.456 ug/L
RT: 4.97 min Scan# 1207
Delta R.T. -0.00 min
Lab File: VU033544.D
Acq: 01 Aug 2019 12:26

Instrument :
MSVOA_U
ClientSampled :
MDL07

Tot Ion	Ratio	Lower	Upper
56	100		
69	31.2	25.0	37.6
84	83.5	71.6	107.4

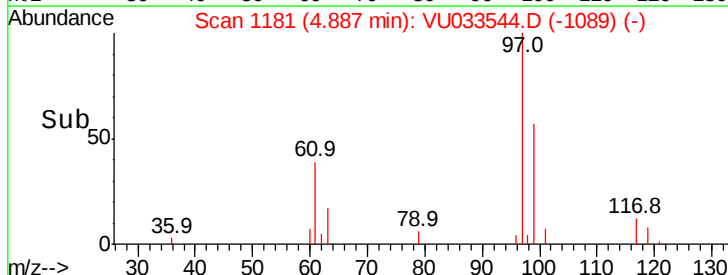
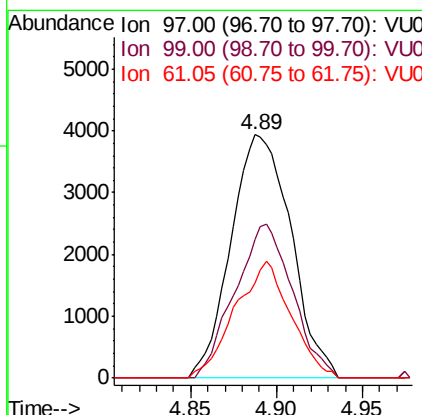
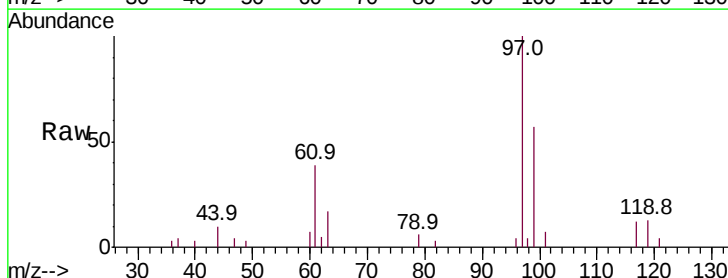
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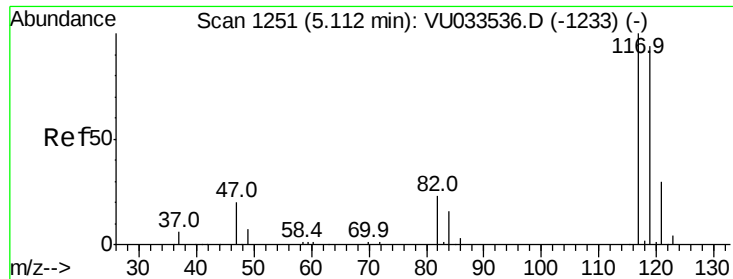
MMDadoda
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#30
1,1,1-Trichloroethane
Concen: 2.771 ug/L
RT: 4.89 min Scan# 1181
Delta R.T. -0.00 min
Lab File: VU033544.D
Acq: 01 Aug 2019 12:26

Tgt Ion	Ratio	Lower	Upper
97	100		
99	60.4	51.1	76.7
61	44.5	35.5	53.3





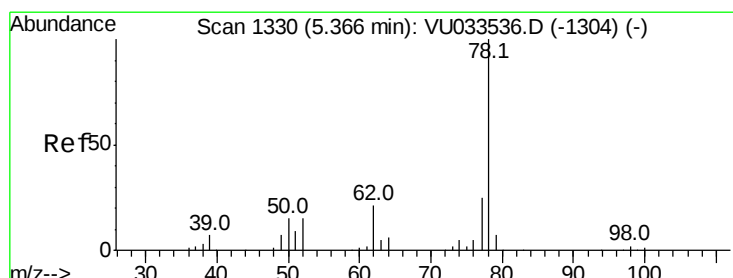
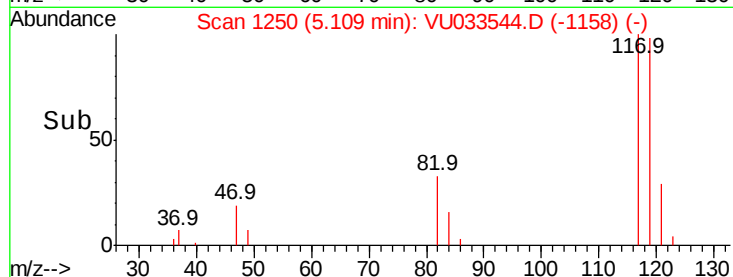
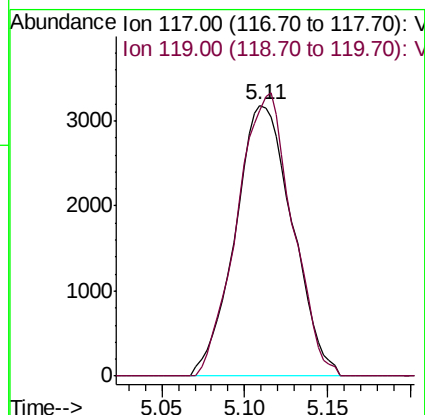
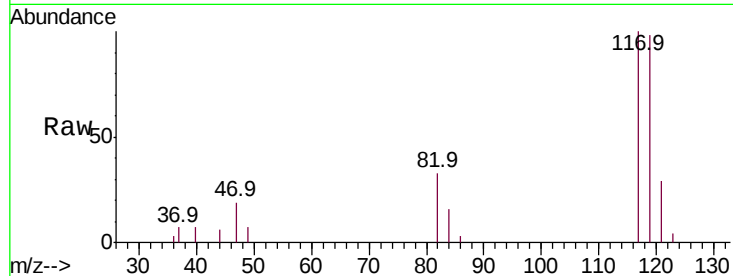
#31
Carbon tetrachloride
Concen: 2.537 ug/L
RT: 5.11 min Scan# 1250
Delta R.T. -0.00 min
Lab File: VU033544.D
Acq: 01 Aug 2019 12:26

Instrument :
MSVOA_U
ClientSampleId :
MDL07

Tot Ion:117 Resp: 7627
Ion Ratio Lower Upper
117 100
119 101.1 77.0 115.4

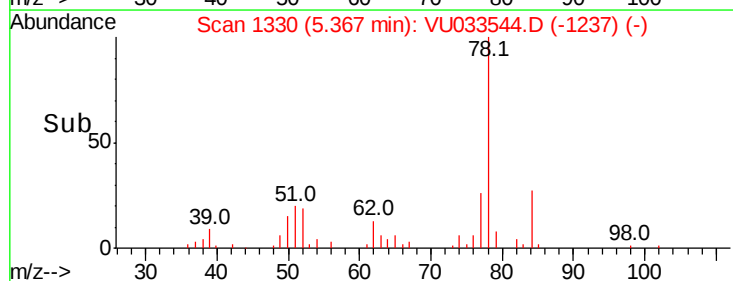
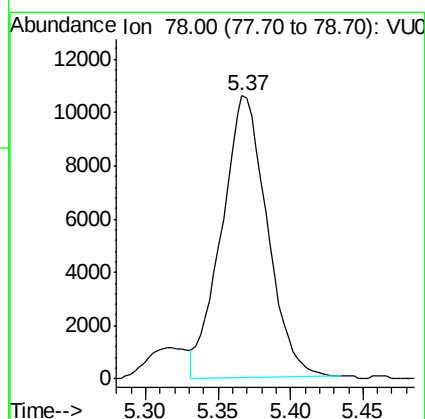
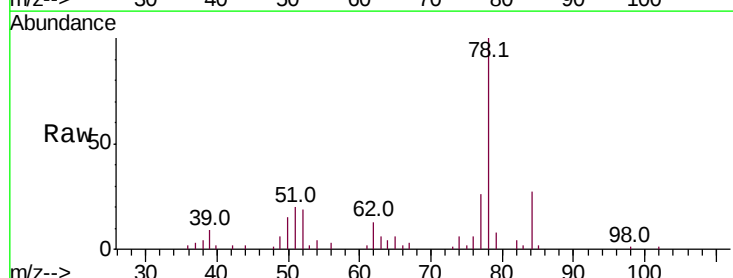
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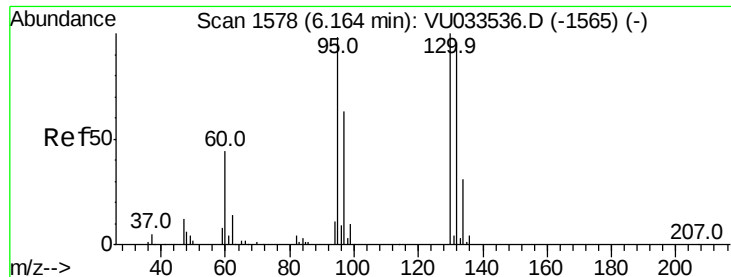
MMDadoda
8/2/2019 8:29:39 AM



#33
Benzene
Concen: 2.663 ug/L
RT: 5.37 min Scan# 1330
Delta R.T. 0.00 min
Lab File: VU033544.D
Acq: 01 Aug 2019 12:26

Tgt Ion: 78 Resp: 23054





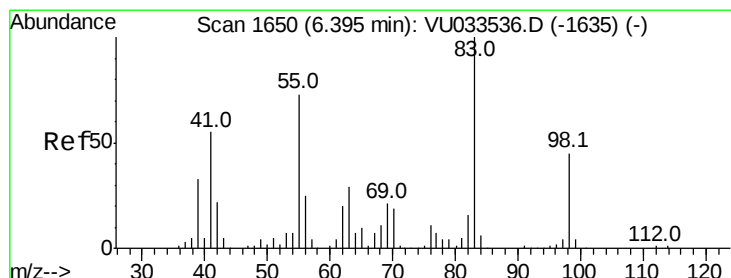
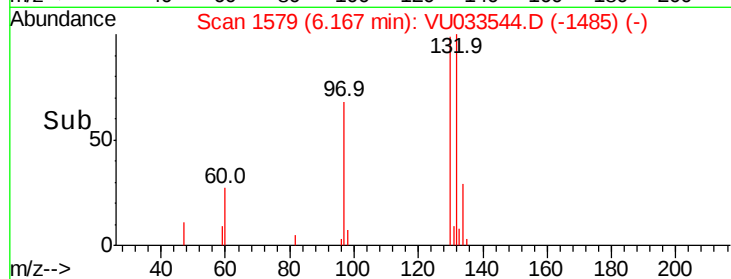
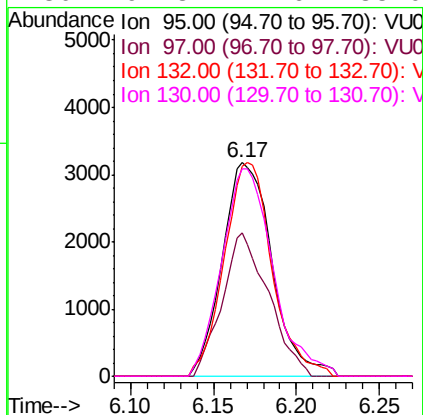
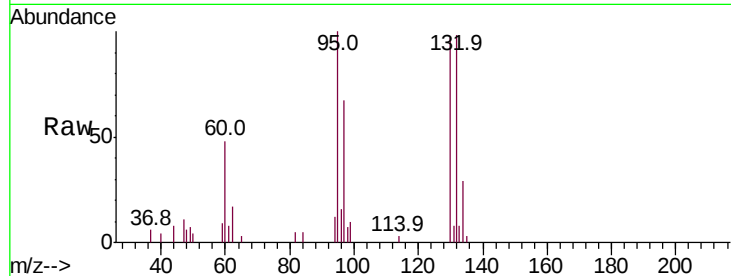
#34
 Trichloroethene
 Concen: 2.912 ug/L
 RT: 6.17 min Scan# 1579
 Delta R.T. 0.00 min
 Lab File: VU033544.D
 Acq: 01 Aug 2019 12:26

Instrument :
 MSVOA_U
 ClientSampled :
 MDL07

Tot Ion:	95	Resp:	6650
Ion	Ratio	Lower	Upper
95	100		
97	66.9	44.7	83.1
132	98.1	66.8	124.0
130	97.3	71.6	133.0

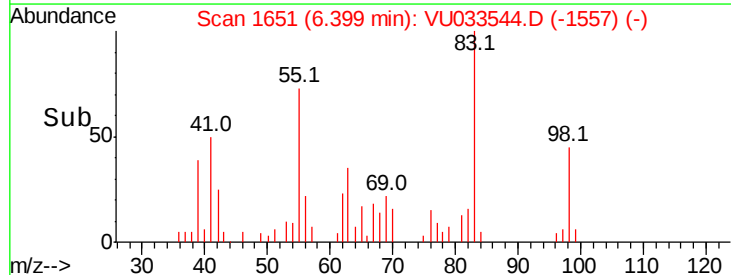
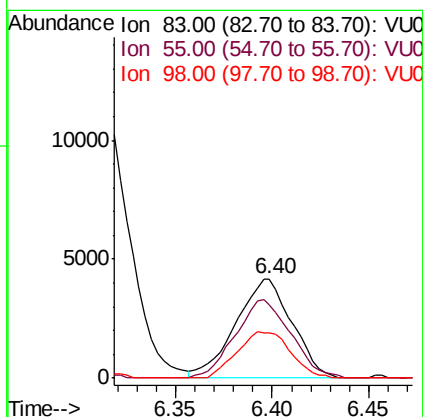
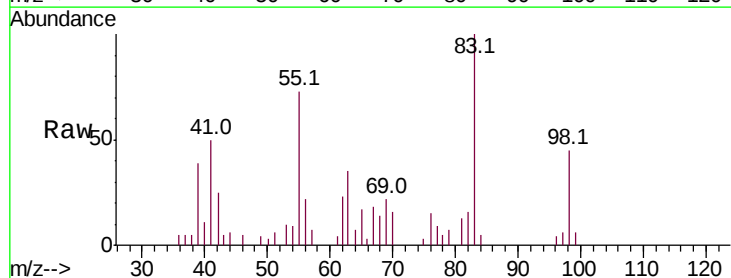
Manual Integrations
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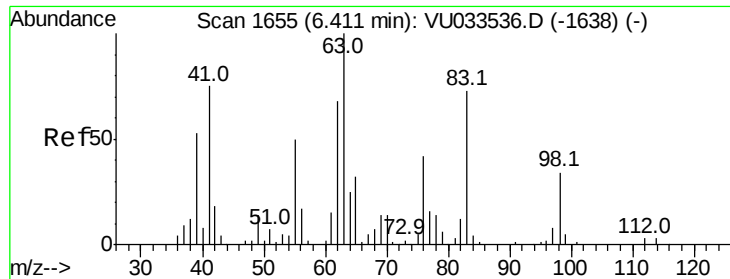
MMDadoda
 8/2/2019 8:29:39 AM



#35
 Methylcyclohexane
 Concen: 2.375 ug/L
 RT: 6.40 min Scan# 1651
 Delta R.T. 0.00 min
 Lab File: VU033544.D
 Acq: 01 Aug 2019 12:26

Tgt Ion:	83	Resp:	8464
Ion	Ratio	Lower	Upper
83	100		
55	77.5	60.2	90.4
98	44.1	36.5	54.7





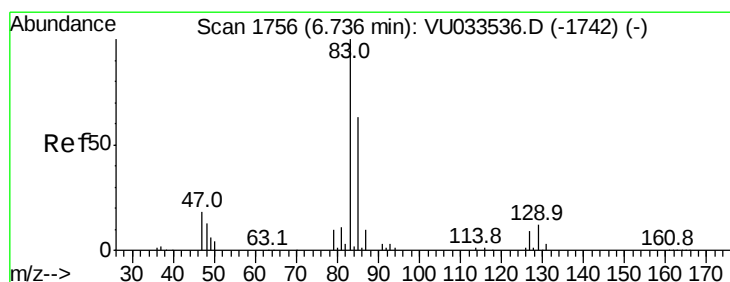
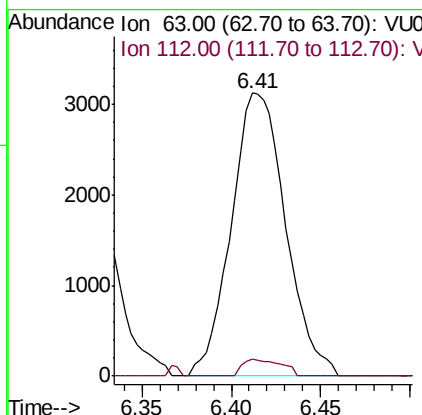
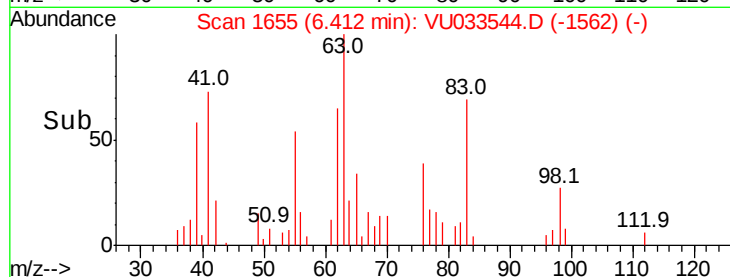
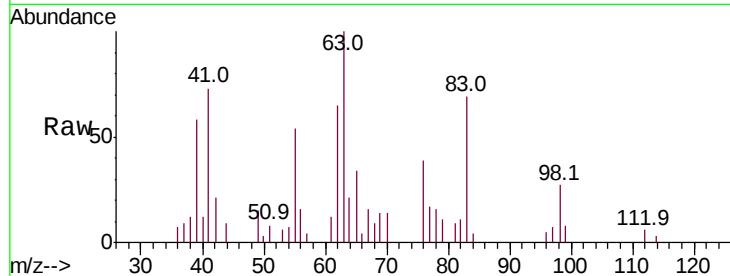
#37
 1,2-Dichloropropane
 Concen: 2.867 ug/L
 RT: 6.41 min Scan# 1655
 Delta R.T. 0.00 min
 Lab File: VU033544.D
 Acq: 01 Aug 2019 12:26

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL07

Tot Ion: 63 Resp: 6644
 Ion Ratio Lower Upper
 63 100
 112 4.3 3.0 4.6

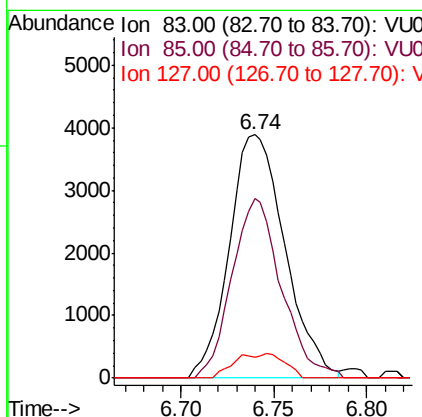
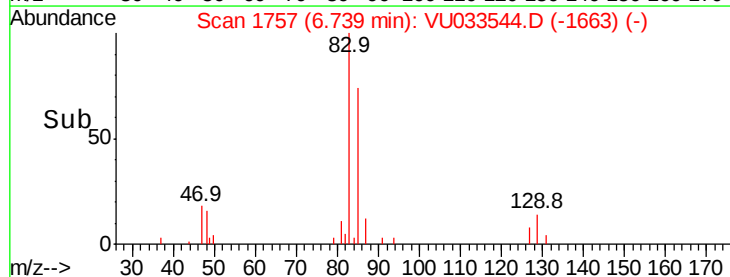
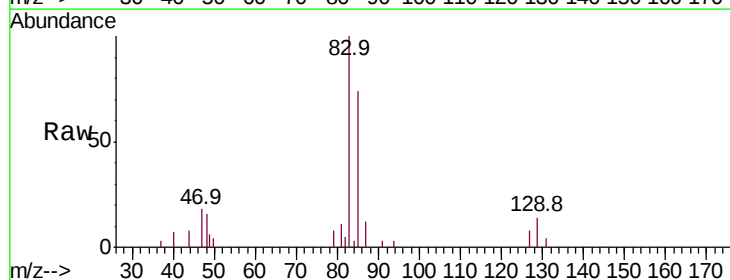
Manual Integrations
 APPROVED

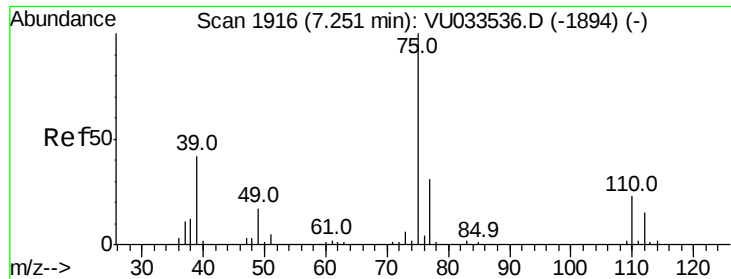
MMDadoda
 8/2/2019 8:29:39 AM



#38
 Bromodichloromethane
 Concen: 2.707 ug/L
 RT: 6.74 min Scan# 1757
 Delta R.T. 0.00 min
 Lab File: VU033544.D
 Acq: 01 Aug 2019 12:26

Tgt Ion: 83 Resp: 8109
 Ion Ratio Lower Upper
 83 100
 85 73.7 45.1 83.9
 127 8.4 7.2 10.8





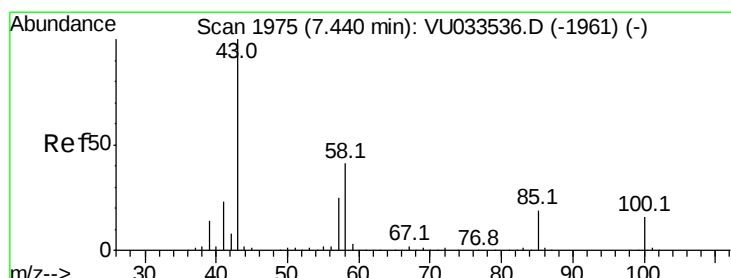
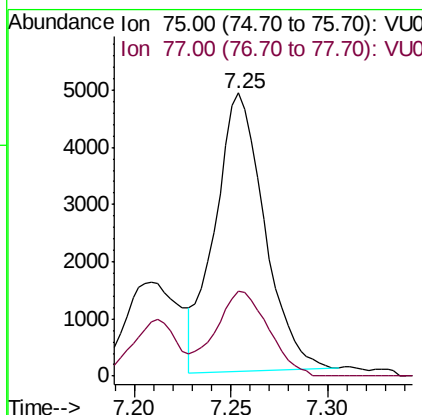
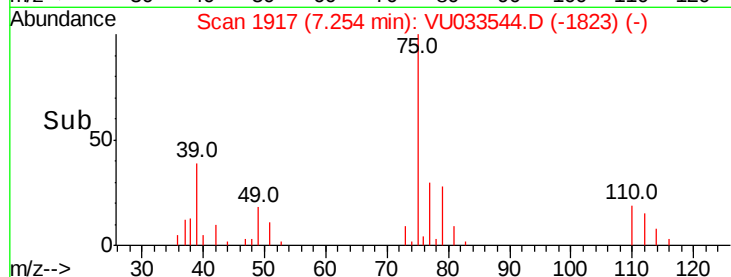
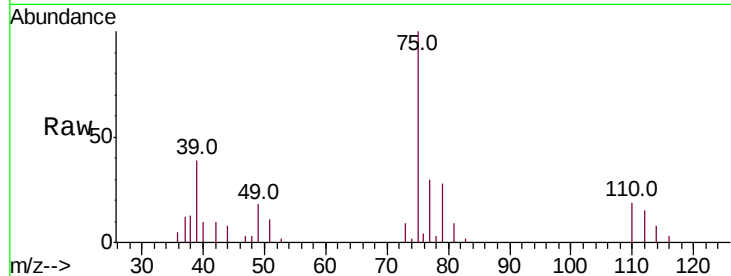
#39
 cis-1,3-Dichloropropene
 Concen: 2.390 ug/L
 RT: 7.25 min Scan# 1917
 Delta R.T. 0.00 min
 Lab File: VU033544.D
 Acq: 01 Aug 2019 12:26

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL07

Tot Ion: 75 Resp: 8645
 Ion Ratio Lower Upper
 75 100
 77 30.0 22.3 41.5

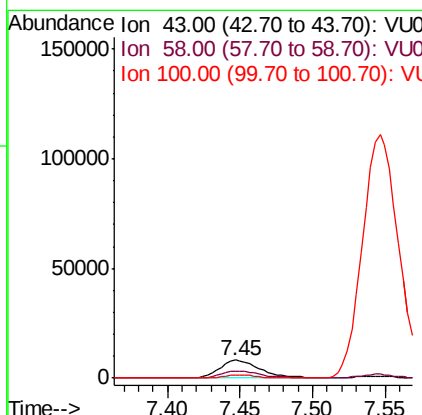
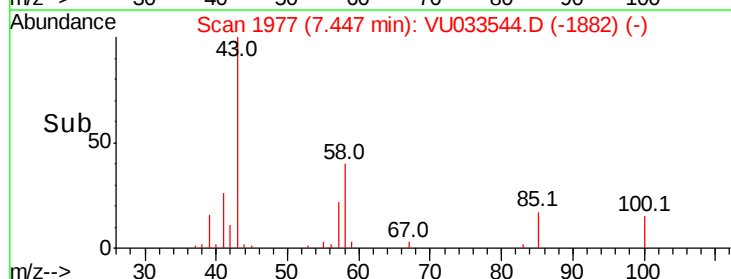
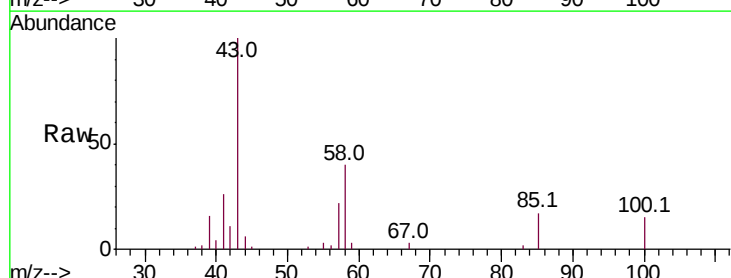
Manual Integrations
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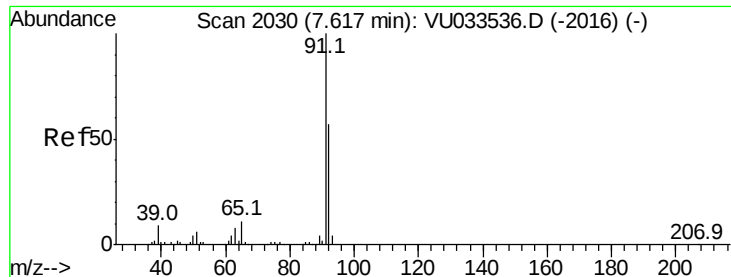
MMDadoda
 8/2/2019 8:29:39 AM



#40
 4-Methyl-2-pentanone
 Concen: 5.093 ug/L
 RT: 7.45 min Scan# 1977
 Delta R.T. 0.01 min
 Lab File: VU033544.D
 Acq: 01 Aug 2019 12:26

Tgt Ion: 43 Resp: 16294
 Ion Ratio Lower Upper
 43 100
 58 38.0 32.8 49.2
 100 13.6 12.9 19.3





#42

Toluene

Concen: 2.605 ug/L

RT: 7.62 min Scan# 2031

Delta R.T. 0.00 min

Lab File: VU033544.D

Acq: 01 Aug 2019 12:26

Instrument :

MSVOA_U

ClientSampleId :

MDL07

Tot Ion: 91 Resp: 24249

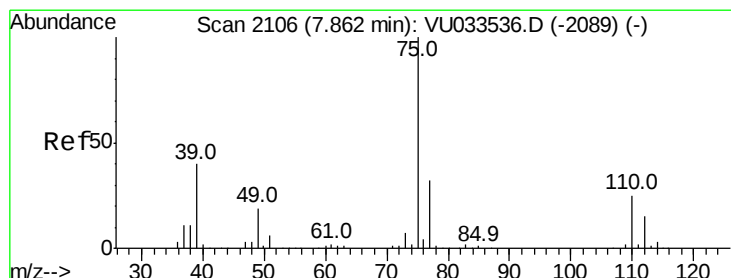
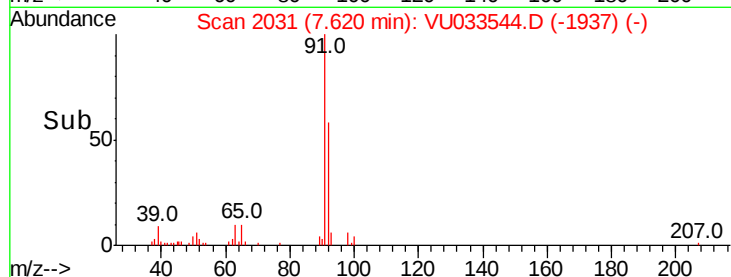
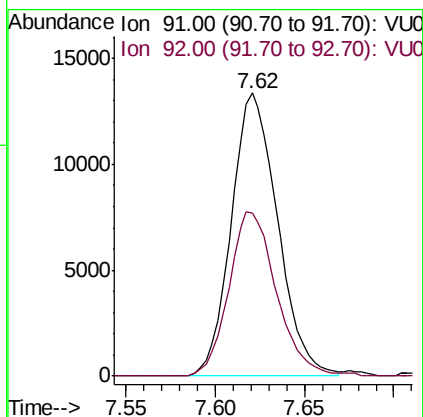
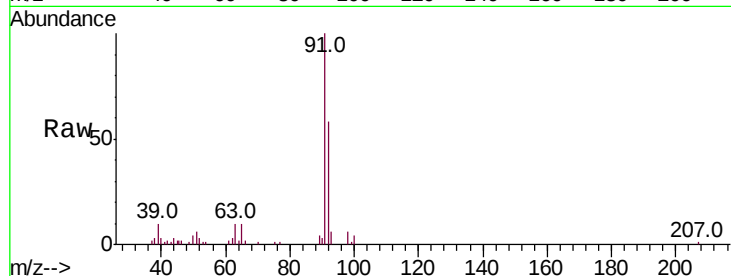
Ion Ratio Lower Upper

91 100

92 57.7 40.2 74.6

Manual Integrations
APPROVED

MMDadoda
8/2/2019 8:29:39 AM



#44

trans-1,3-Dichloropropene

Concen: 2.635 ug/L

RT: 7.86 min Scan# 2107

Delta R.T. 0.00 min

Lab File: VU033544.D

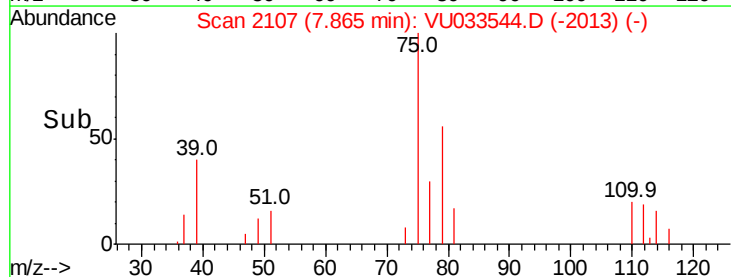
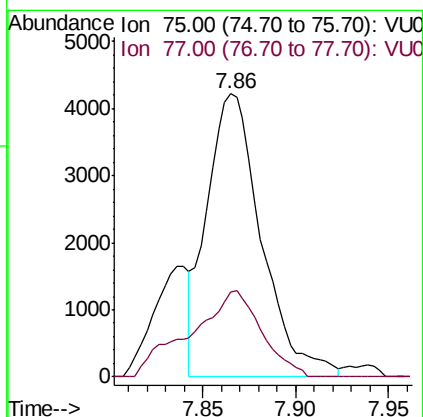
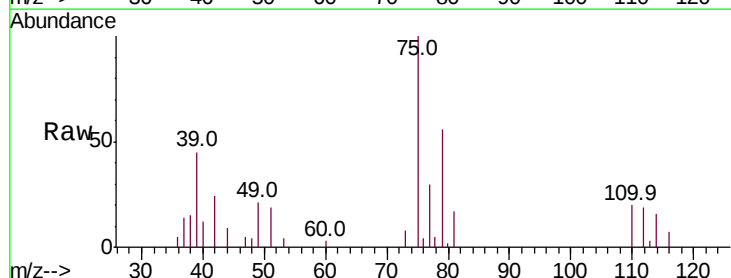
Acq: 01 Aug 2019 12:26

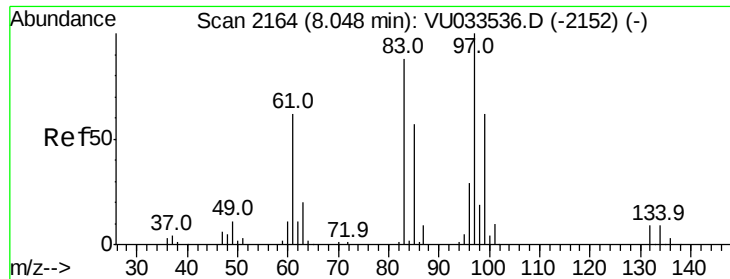
Tgt Ion: 75 Resp: 8612

Ion Ratio Lower Upper

75 100

77 29.9 22.7 42.1





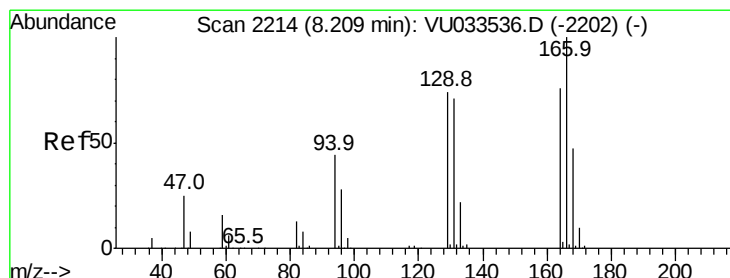
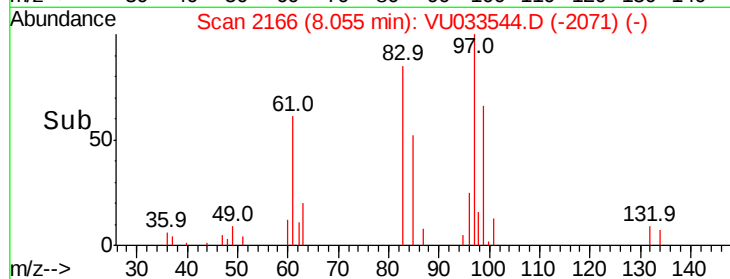
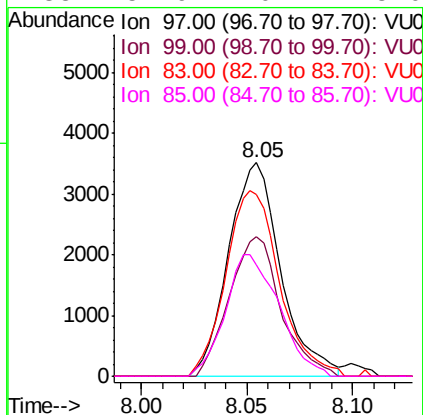
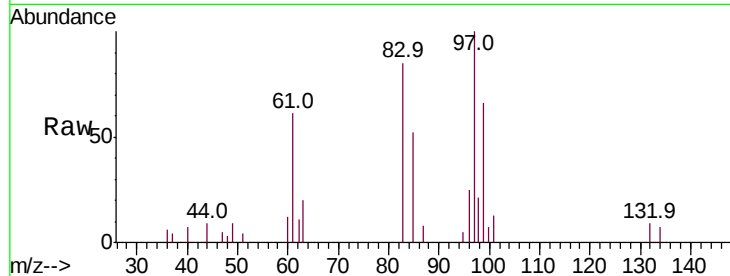
#45
1,1,2-Trichloroethane
Concen: 2.751 ug/L
RT: 8.05 min Scan# 2166
Delta R.T. 0.01 min
Lab File: VU033544.D
Acq: 01 Aug 2019 12:26

Instrument :
MSVOA_U
ClientSampleId :
MDL07

Tot Ion	Ratio	Lower	Upper
97	100		
99	65.6	44.4	82.4
83	85.2	61.5	114.1
85	51.9	40.4	75.0

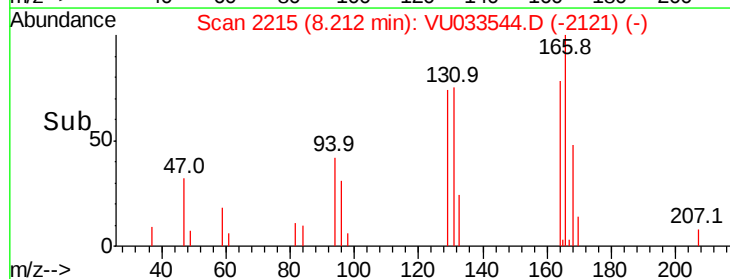
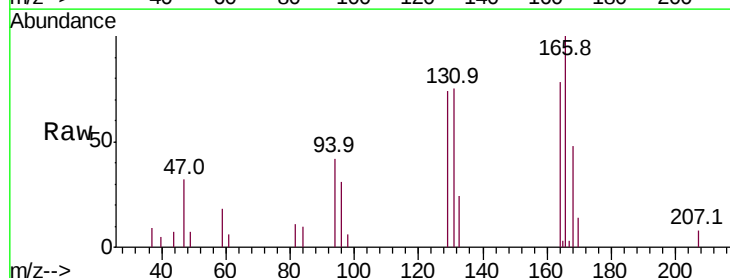
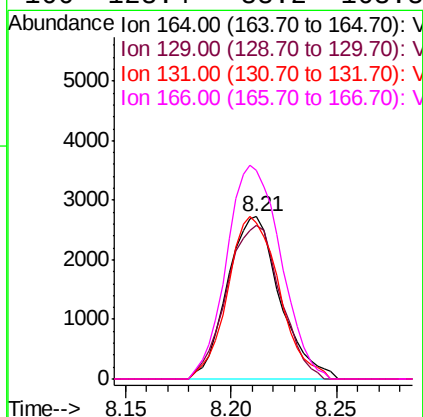
Manual Integrations
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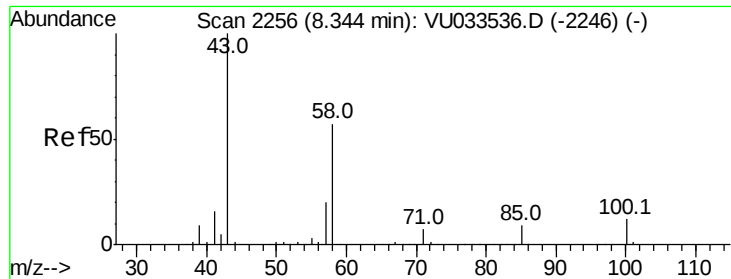
MMDadoda
8/2/2019 8:29:39 AM



#46
Tetrachloroethene
Concen: 2.537 ug/L
RT: 8.21 min Scan# 2215
Delta R.T. 0.00 min
Lab File: VU033544.D
Acq: 01 Aug 2019 12:26

Tgt Ion	Ratio	Lower	Upper
164	100		
129	94.7	65.5	121.7
131	96.0	63.3	117.7
166	128.4	88.2	163.8





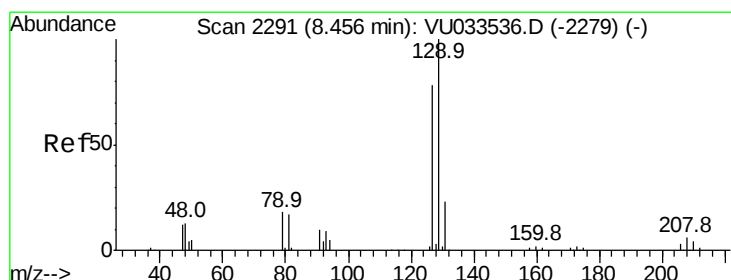
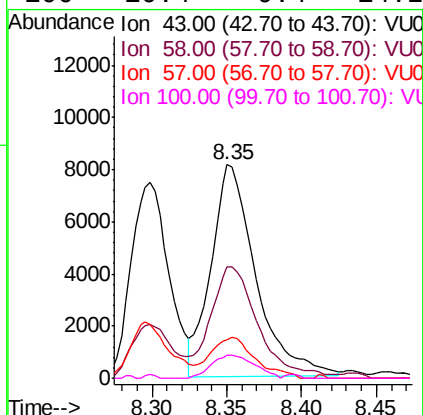
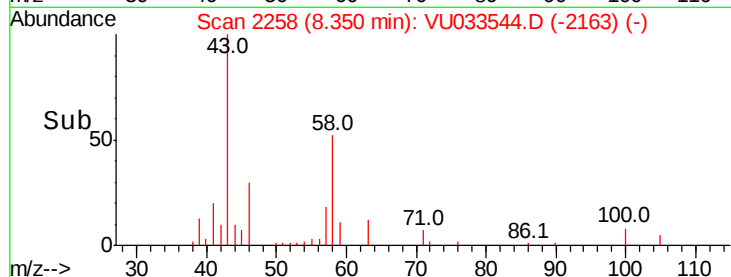
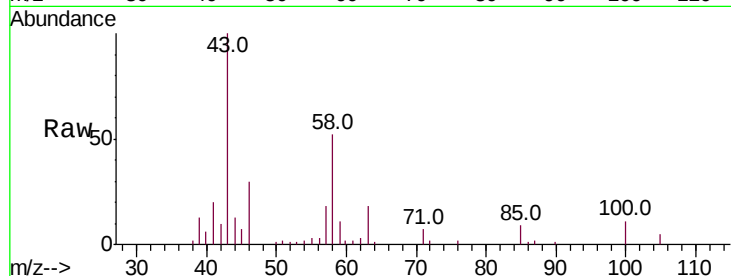
#48
2-Hexanone
Concen: 6.575 ug/L
RT: 8.35 min Scan# 2258
Delta R.T. 0.01 min
Lab File: VU033544.D
Acq: 01 Aug 2019 12:26

Instrument :
MSVOA_U
ClientSampled :
MDL07

Tot Ion	Ratio	Lower	Upper
43	100		
58	48.5	45.8	68.6
57	19.3	15.8	23.6
100	10.4	9.4	14.2

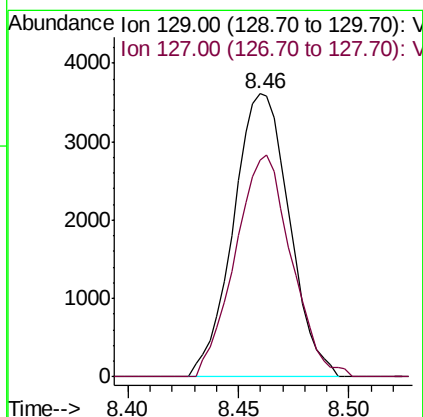
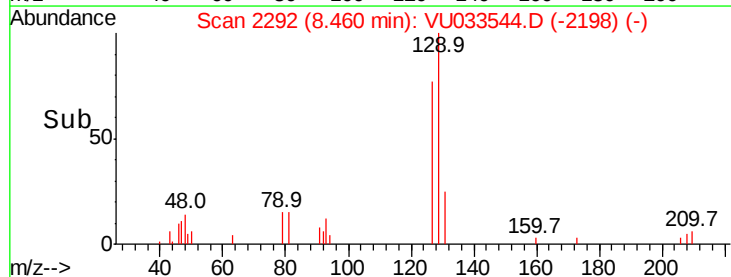
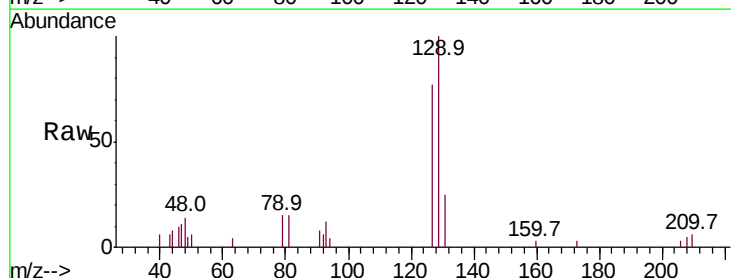
Manual Integrations
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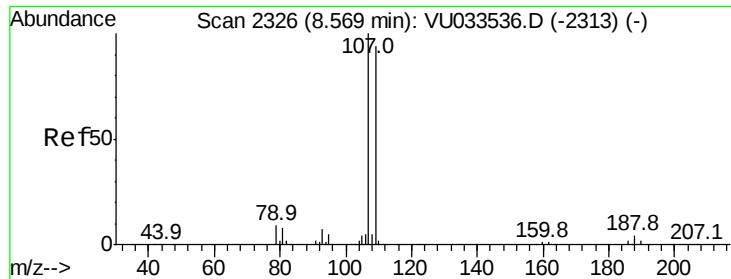
MMDadoda
8/2/2019 8:29:39 AM



#49
Dibromochloromethane
Concen: 2.536 ug/L
RT: 8.46 min Scan# 2292
Delta R.T. 0.00 min
Lab File: VU033544.D
Acq: 01 Aug 2019 12:26

Tgt Ion	Ratio	Lower	Upper
129	100		
127	76.6	53.8	99.8





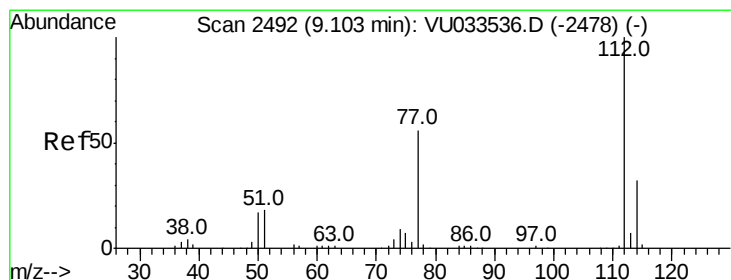
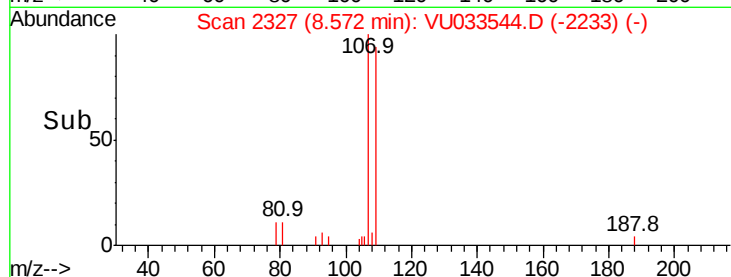
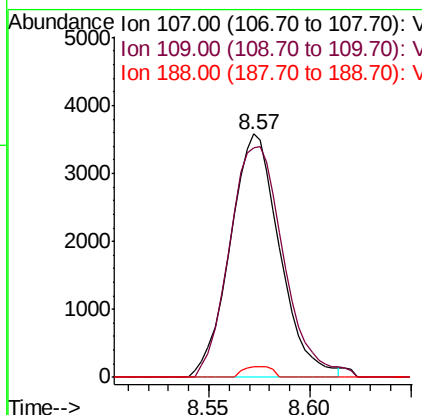
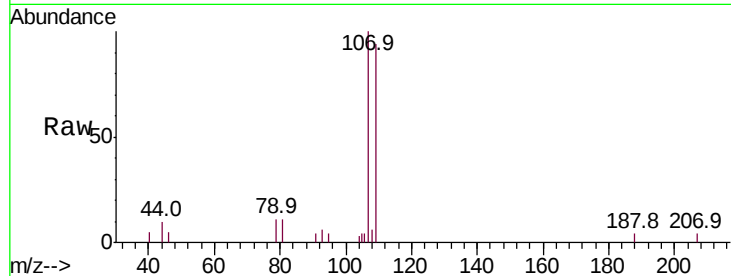
#50
1,2-Dibromoethane
Concen: 2.534 ug/L
RT: 8.57 min Scan# 2327
Delta R.T. 0.00 min
Lab File: VU033544.D
Acq: 01 Aug 2019 12:26

Instrument :
MSVOA_U
ClientSampleId :
MDL07

Tot Ion:	107	Resp:	6175
Ion Ratio	Lower	Upper	
107	100		
109	94.3	66.8	124.0
188	4.4	3.0	4.4

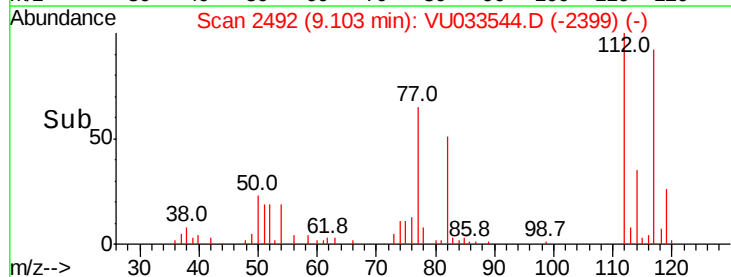
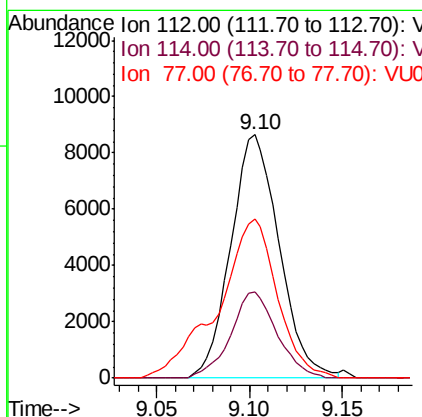
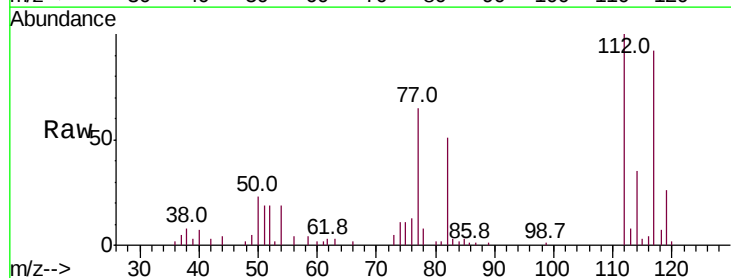
Manual Integrations
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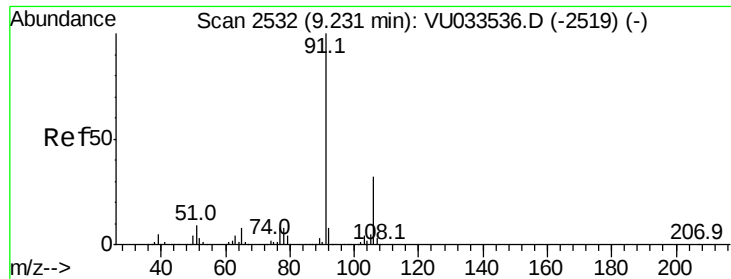
MMDadoda
8/2/2019 8:29:39 AM



#51
Chlorobenzene
Concen: 2.574 ug/L
RT: 9.10 min Scan# 2492
Delta R.T. 0.00 min
Lab File: VU033544.D
Acq: 01 Aug 2019 12:26

Tgt Ion:	112	Resp:	15687
Ion Ratio	Lower	Upper	
112	100		
114	35.5	22.3	41.5
77	65.3	45.6	68.4





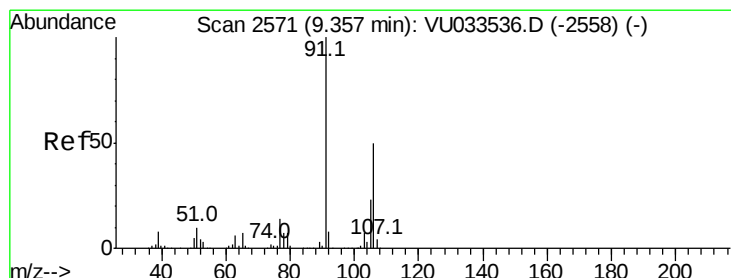
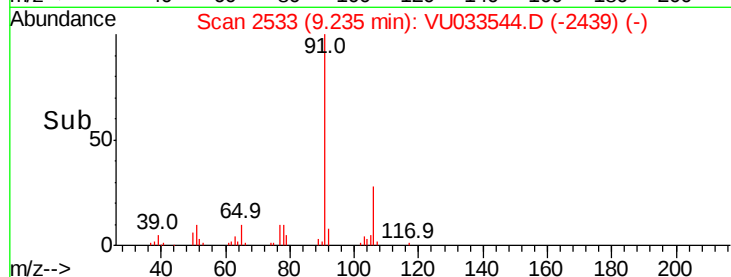
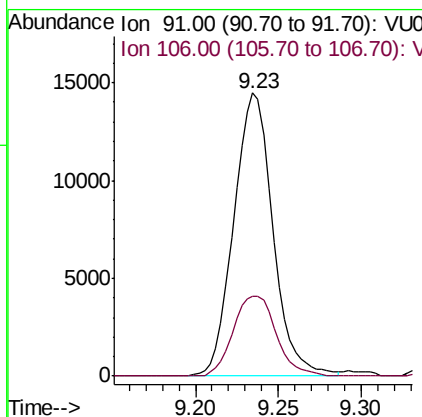
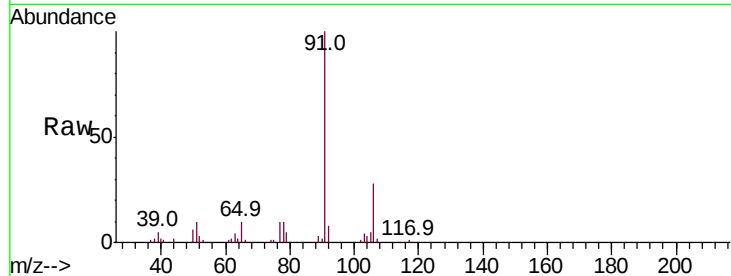
#52
Ethylbenzene
Concen: 2.374 ug/L
RT: 9.23 min Scan# 2533
Delta R.T. 0.00 min
Lab File: VU033544.D
Acq: 01 Aug 2019 12:26

Instrument :
MSVOA_U
ClientSampleId :
MDL07

Tot Ion	Ratio	Lower	Upper
91	100		
106	28.0	22.2	41.2

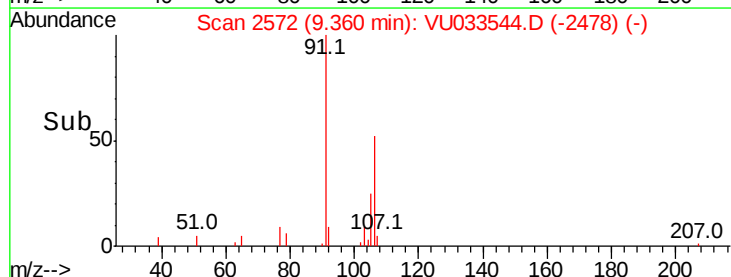
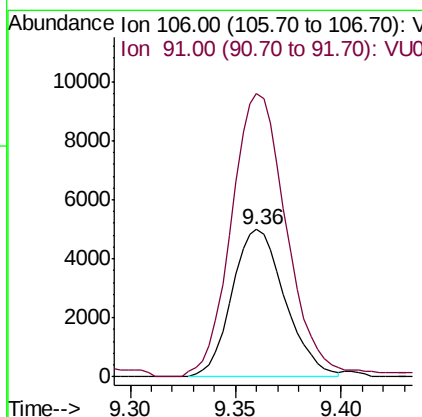
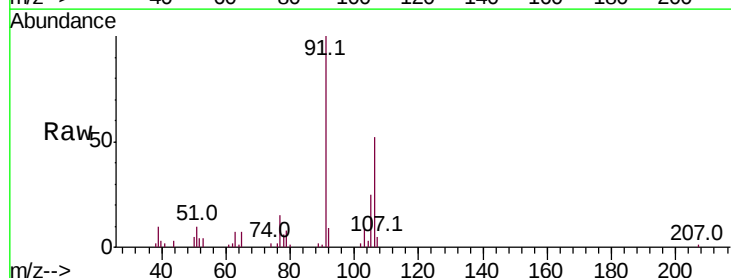
Manual Integrations
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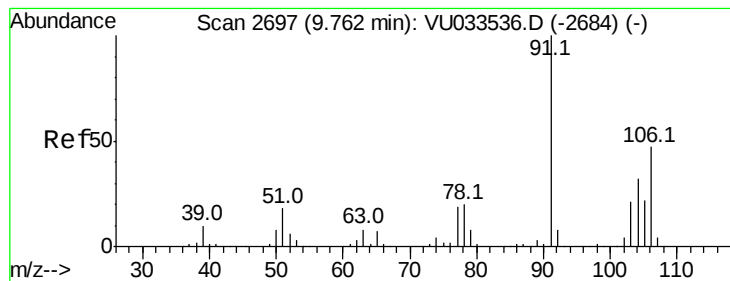
MMDadoda
8/2/2019 8:29:39 AM



#53
m,p-Xylene
Concen: 2.265 ug/L
RT: 9.36 min Scan# 2572
Delta R.T. 0.00 min
Lab File: VU033544.D
Acq: 01 Aug 2019 12:26

Tgt Ion	Ratio	Lower	Upper
106	100		
91	192.1	143.0	265.6





#54

o-xylene

Concen: 2.193 ug/L

RT: 9.76 min Scan# 2697

Delta R.T. 0.00 min

Lab File: VU033544.D

Acq: 01 Aug 2019 12:26

Instrument :

MSVOA_U

ClientSampled :

MDL07

Tot Ion:106 Resp: 8186

Ion Ratio Lower Upper

106 100

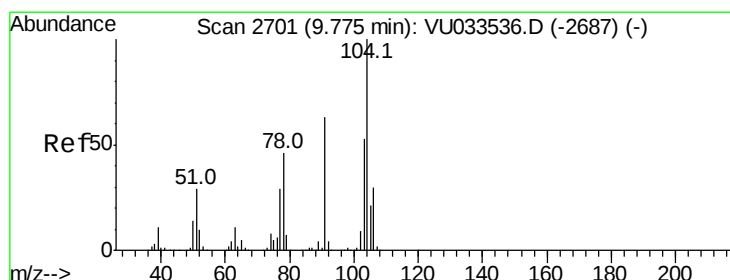
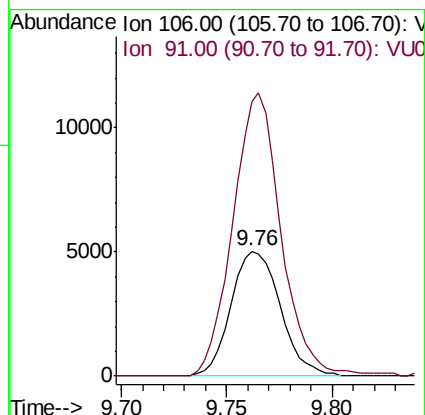
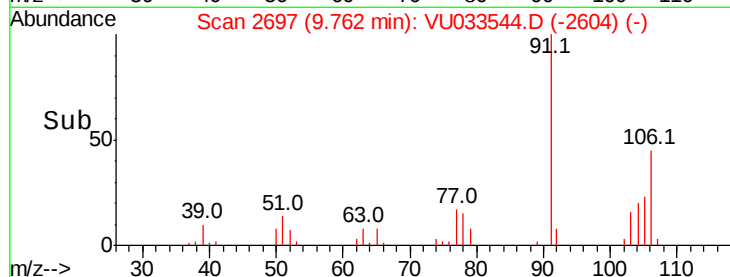
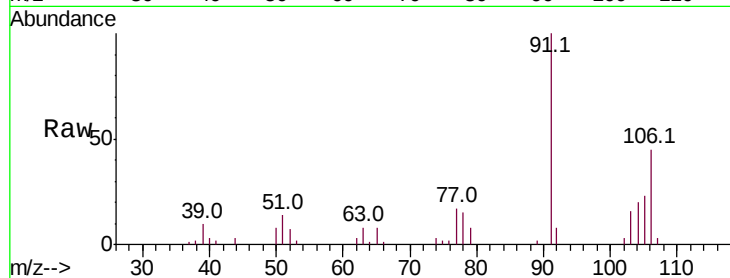
91 220.5 148.4 275.6

Manual Integrations

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MMDadoda

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#55

Styrene

Concen: 2.150 ug/L

RT: 9.78 min Scan# 2703

Delta R.T. 0.01 min

Lab File: VU033544.D

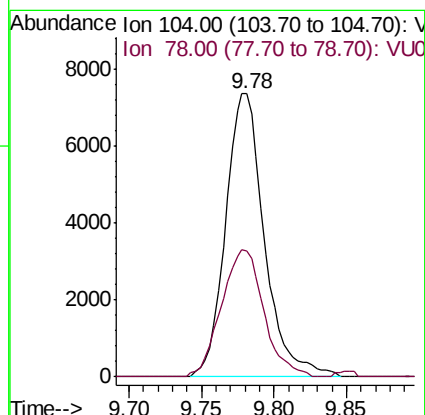
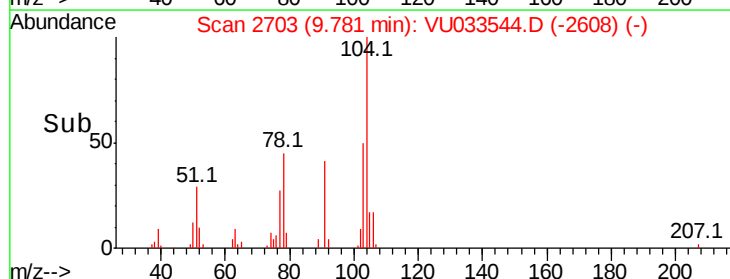
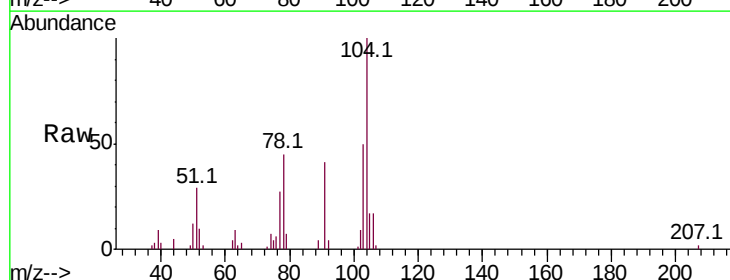
Acq: 01 Aug 2019 12:26

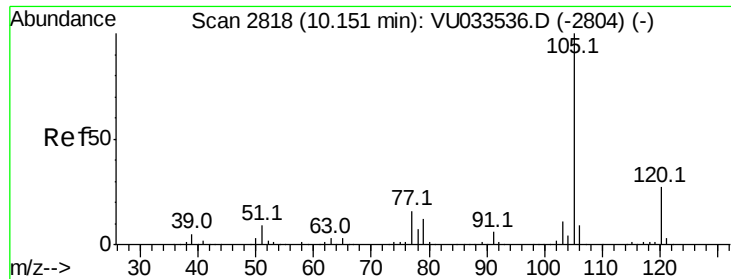
Tgt Ion:104 Resp: 13630

Ion Ratio Lower Upper

104 100

78 44.6 32.2 59.8





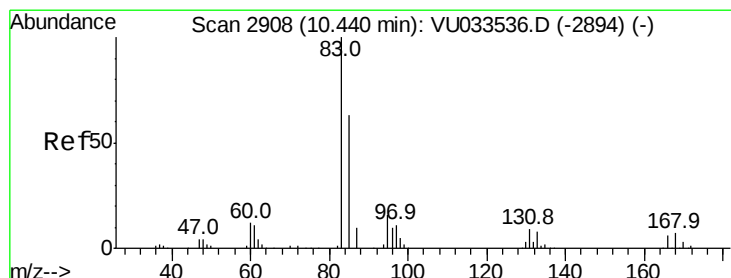
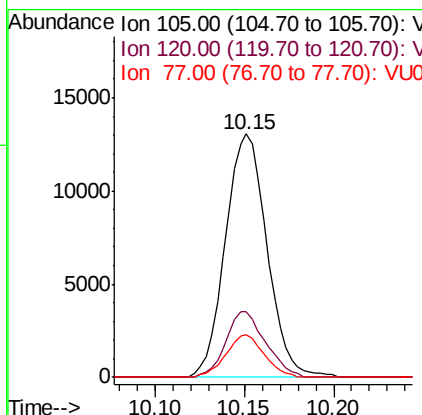
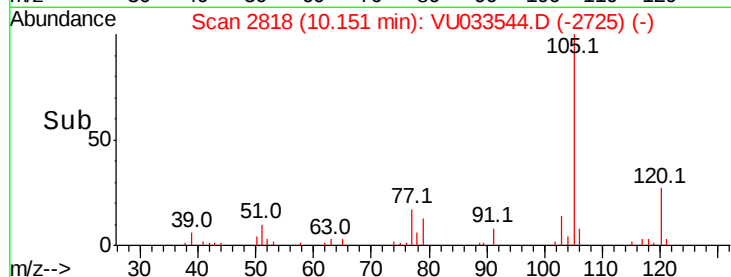
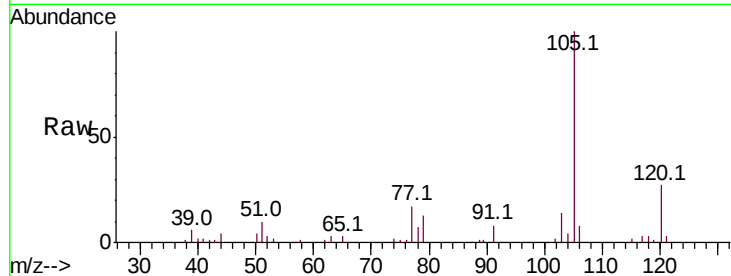
#56
Isopropylbenzene
Concen: 2.168 ug/L
RT: 10.15 min Scan# 2818
Delta R.T. 0.00 min
Lab File: VU033544.D
Acq: 01 Aug 2019 12:26

Instrument :
MSVOA_U
ClientSampled :
MDL07

Tot Ion:	105	Resp:	21147
Ion Ratio	Lower	Upper	
105	100		
120	25.8	21.4	32.0
77	16.0	12.5	18.7

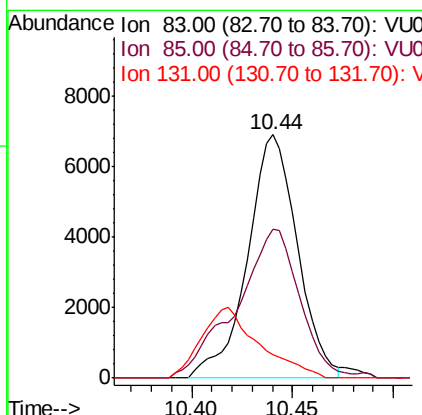
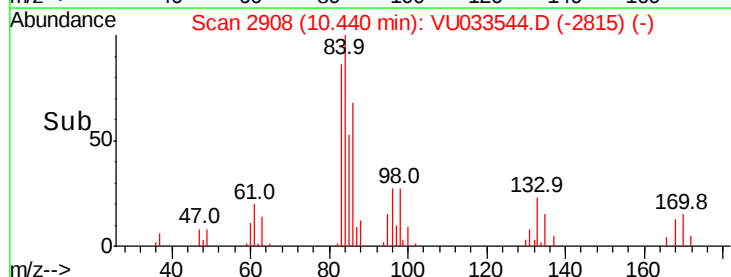
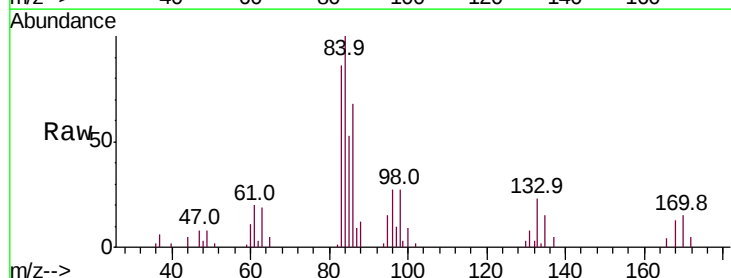
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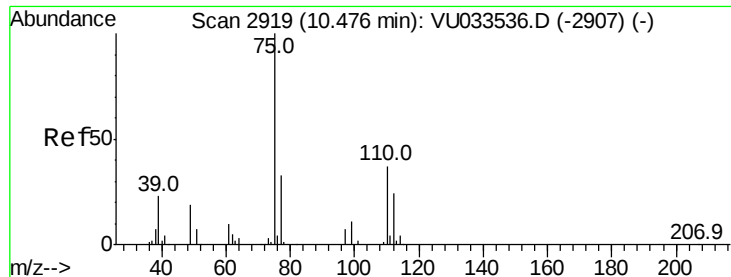
MMDadoda
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#58
1,1,2,2-Tetrachloroethane
Concen: 3.002 ug/L
RT: 10.44 min Scan# 2908
Delta R.T. 0.00 min
Lab File: VU033544.D
Acq: 01 Aug 2019 12:26

Tgt Ion:	83	Resp:	11910
Ion Ratio	Lower	Upper	
83	100		
85	61.2	45.4	84.4
131	9.7	7.9	11.9





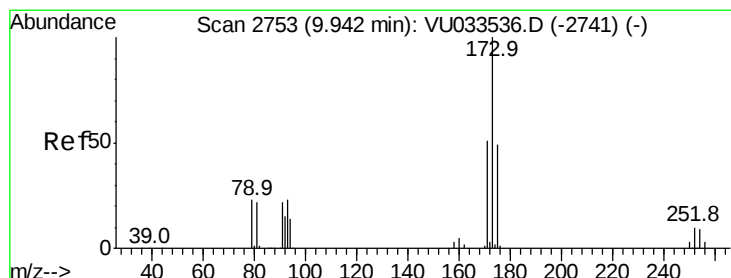
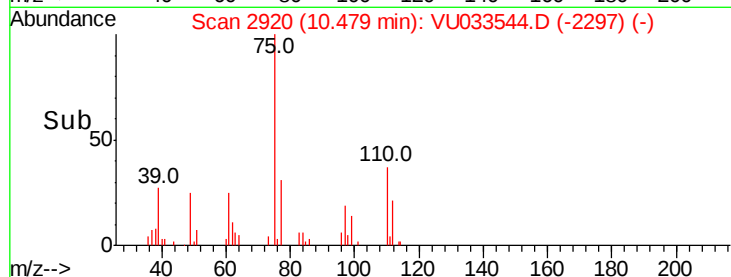
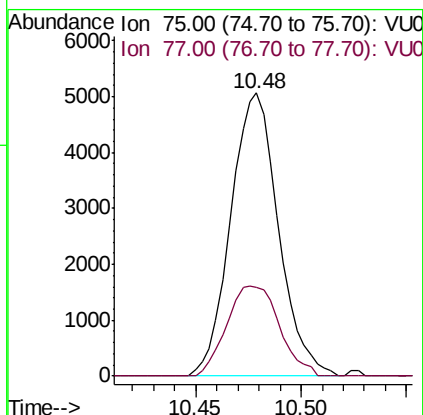
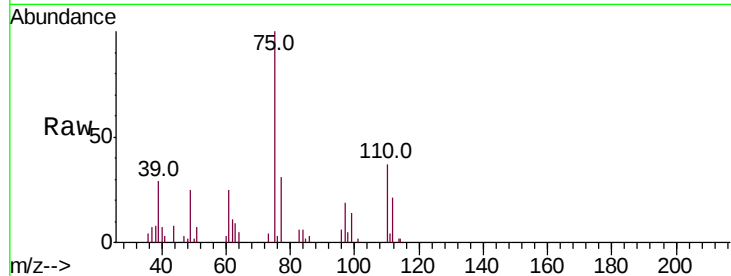
#59
1,2,3-Trichloropropane
Concen: 2.606 ug/L
RT: 10.48 min Scan# 2920
Delta R.T. 0.00 min
Lab File: VU033544.D
Acq: 01 Aug 2019 12:26

Instrument :
MSVOA_U
ClientSampleId :
MDL07

Tot Ion: 75 Resp: 7971
Ion Ratio Lower Upper
75 100
77 35.1 25.8 38.6

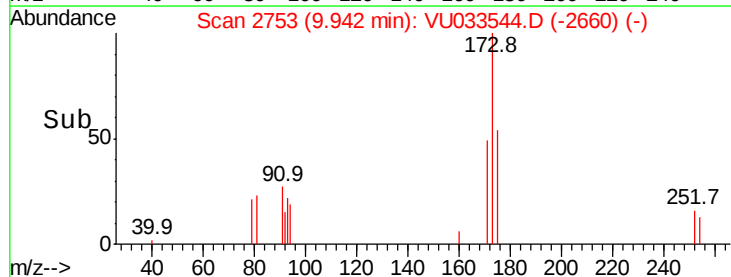
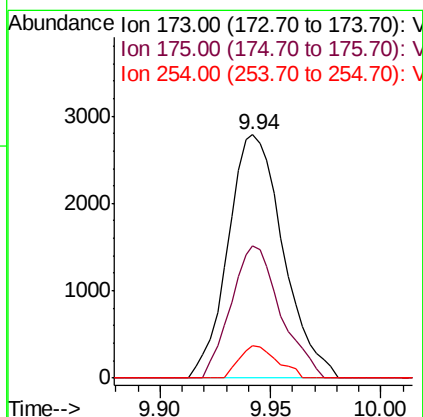
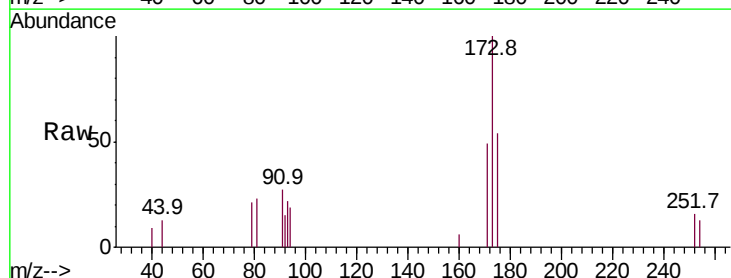
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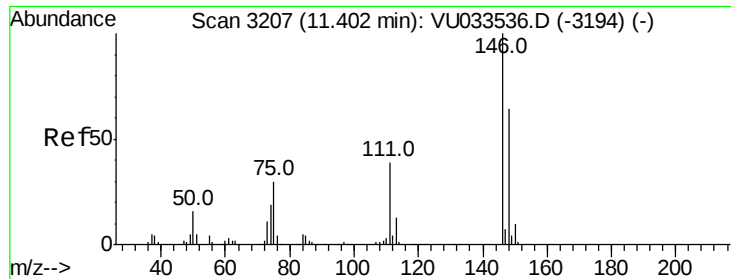
MMDadoda
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#61
Bromoform
Concen: 2.748 ug/L
RT: 9.94 min Scan# 2753
Delta R.T. 0.00 min
Lab File: VU033544.D
Acq: 01 Aug 2019 12:26

Tgt Ion: 173 Resp: 4849
Ion Ratio Lower Upper
173 100
175 48.4 38.7 58.1
254 9.1 7.5 11.3





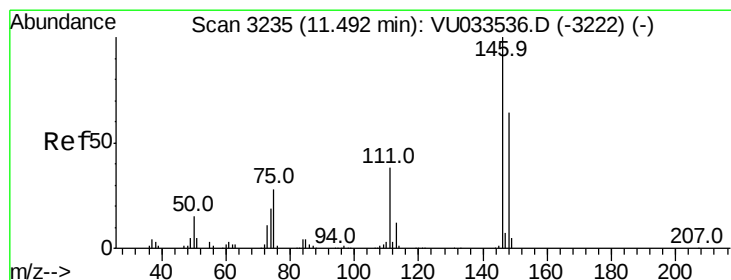
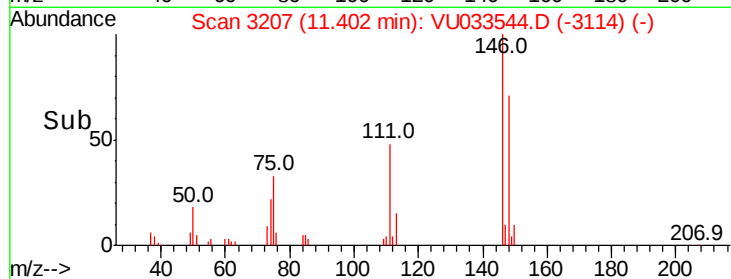
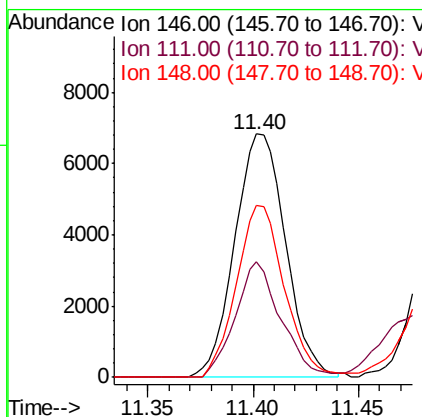
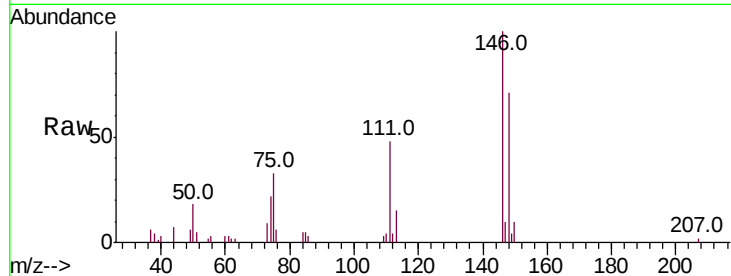
#62
 1,3-Dichlorobenzene
 Concen: 2.550 ug/L
 RT: 11.40 min Scan# 3207
 Delta R.T. 0.00 min
 Lab File: VU033544.D
 Acq: 01 Aug 2019 12:26

Instrument :
 MSVOA_U
 ClientSampled :
 MDL07

Tot Ion	Ratio	Lower	Upper
146	100		
111	47.6	28.1	52.1
148	70.5	45.0	83.6

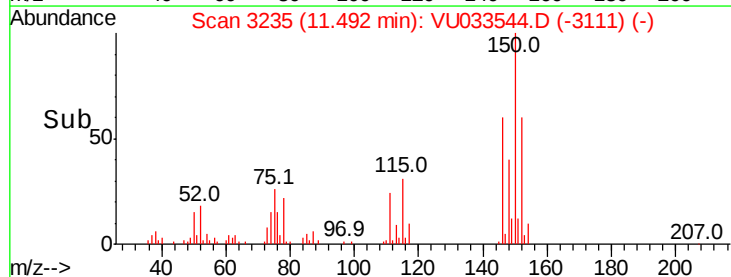
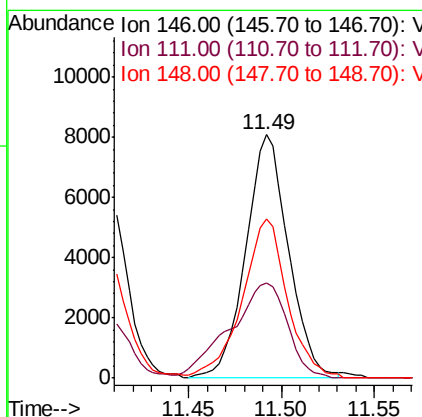
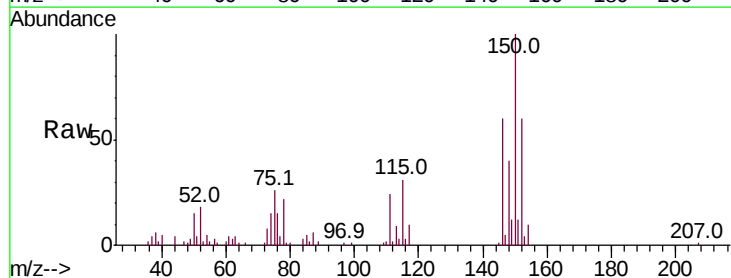
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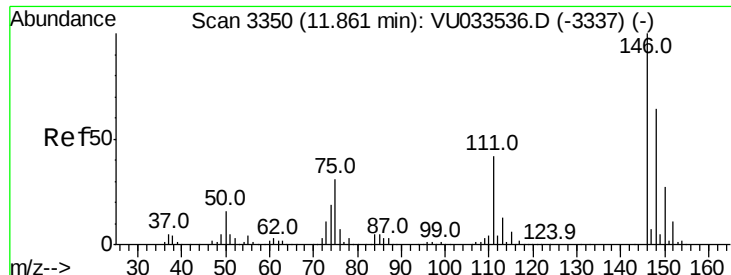
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#63
 1,4-Dichlorobenzene
 Concen: 2.777 ug/L
 RT: 11.49 min Scan# 3235
 Delta R.T. 0.00 min
 Lab File: VU033544.D
 Acq: 01 Aug 2019 12:26

Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.2	27.2	50.4
148	65.6	44.5	82.7





#65

1,2-Dichlorobenzene

Concen: 2.946 ug/L

RT: 11.86 min Scan# 3351

Delta R.T. 0.00 min

Lab File: VU033544.D

Acq: 01 Aug 2019 12:26

Instrument :

MSVOA_U

ClientSampled :

MDL07

Tot Ion:146 Resp: 13360

Ion Ratio Lower Upper

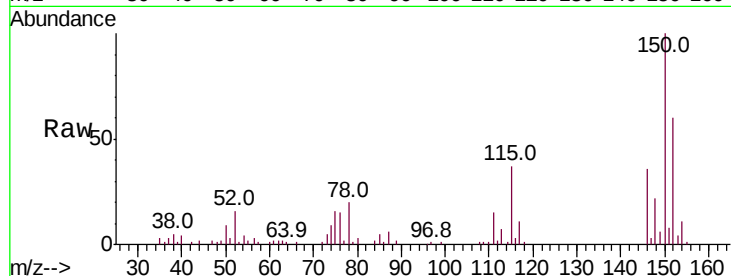
146 100

111 40.6 31.7 47.5

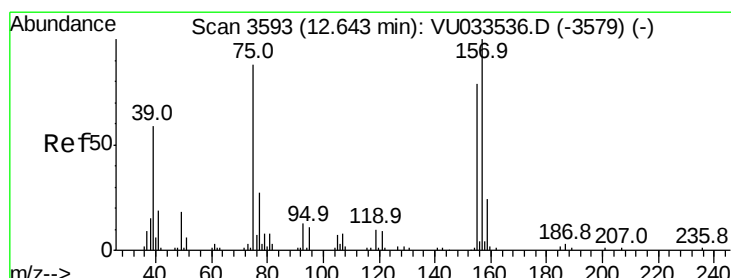
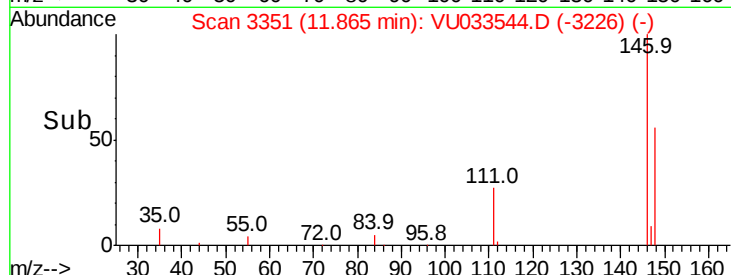
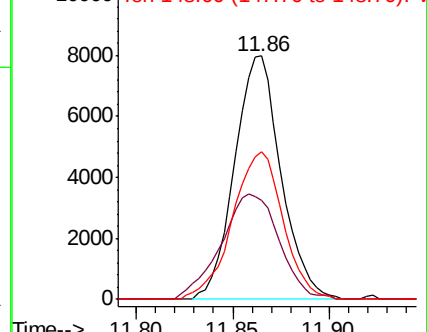
148 60.9 50.3 75.5

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Abundance Ion 146.00 (145.70 to 146.70): V
Ion 111.00 (110.70 to 111.70): V
Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 2.703 ug/L

RT: 12.65 min Scan# 3594

Delta R.T. 0.00 min

Lab File: VU033544.D

Acq: 01 Aug 2019 12:26

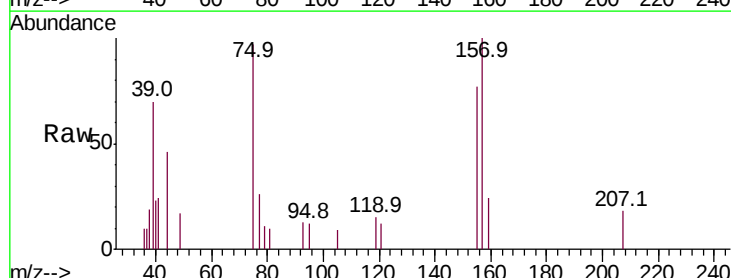
Tgt Ion: 75 Resp: 2265

Ion Ratio Lower Upper

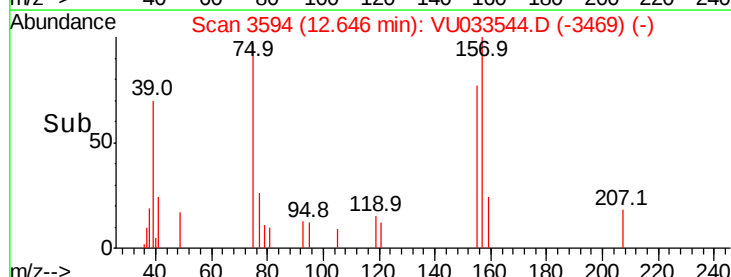
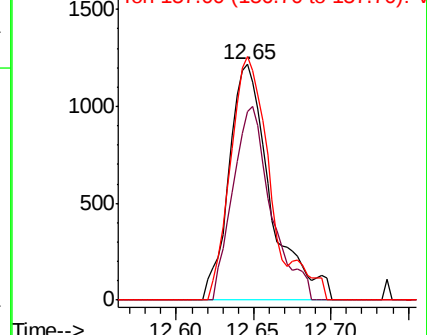
75 100

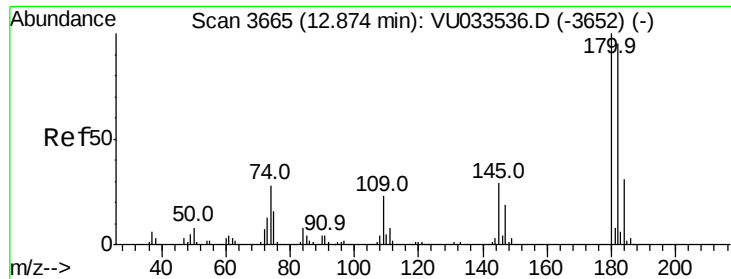
155 79.8 69.4 104.0

157 103.3 91.8 137.8



Abundance Ion 75.00 (74.70 to 75.70): VUO
Ion 155.00 (154.70 to 155.70): V
Ion 157.00 (156.70 to 157.70): V





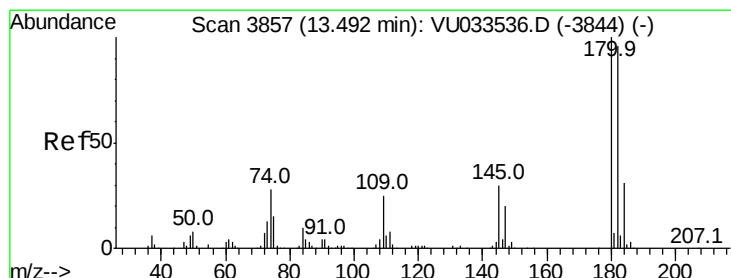
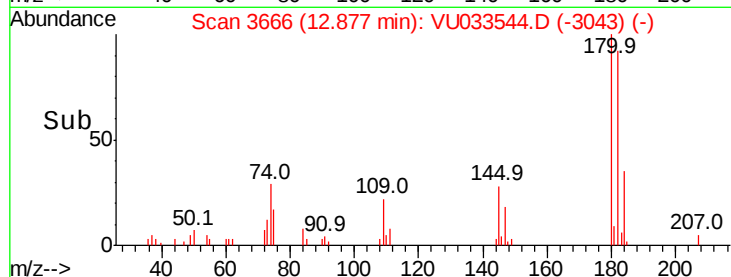
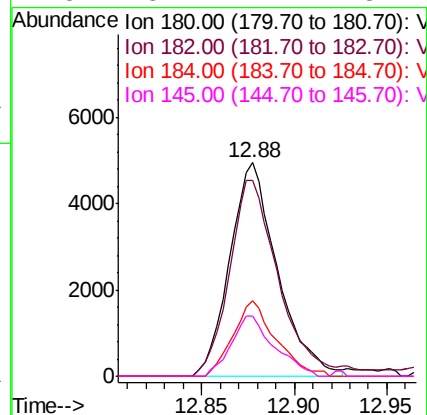
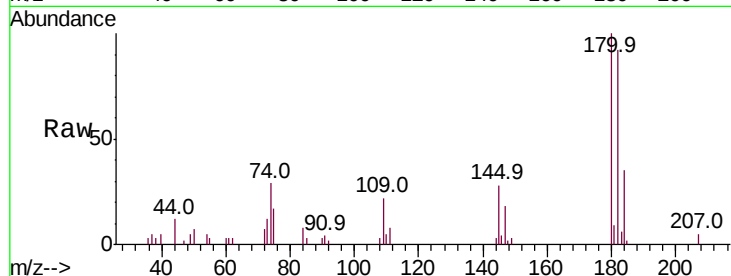
#67
 1,3,5-Trichlorobenzene
 Concen: 2.436 ug/L
 RT: 12.88 min Scan# 3666
 Delta R.T. 0.00 min
 Lab File: VU033544.D
 Acq: 01 Aug 2019 12:26

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL07

Tot Ion:	180	Resp:	8816
Ion Ratio	Lower	Upper	
180	100		
182	93.8	75.6	113.4
184	31.7	24.2	36.2
145	25.4	22.7	34.1

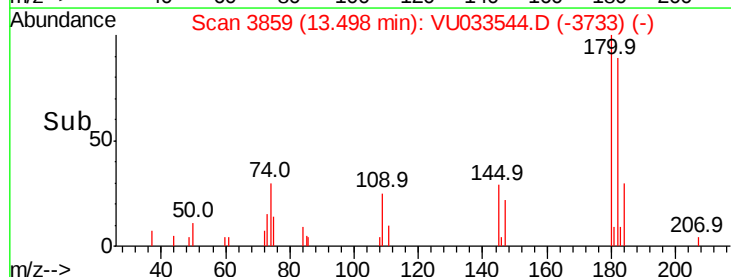
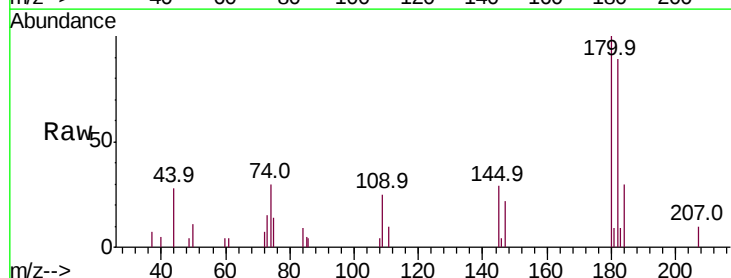
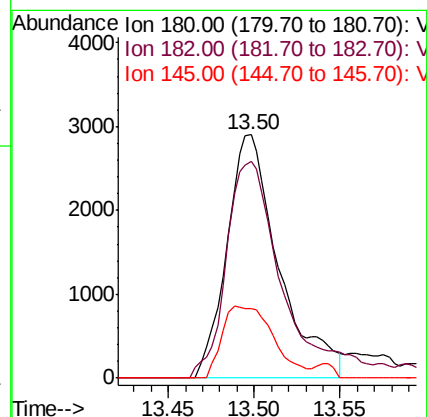
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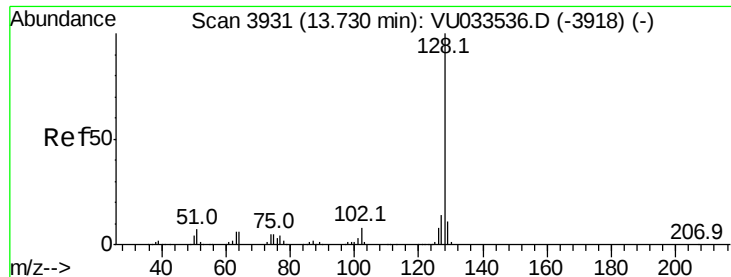
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#68
 1,2,4-trichlorobenzene
 Concen: 1.974 ug/L m
 RT: 13.50 min Scan# 3859
 Delta R.T. 0.01 min
 Lab File: VU033544.D
 Acq: 01 Aug 2019 12:26

Tgt Ion:	180	Resp:	6103
Ion Ratio	Lower	Upper	
180	100		
182	89.4	75.8	113.8
145	29.0	24.3	36.5





#69

Naphthalene

Concen: 1.658 ug/L m

RT: 13.74 min Scan# 3933

Delta R.T. 0.01 min

Lab File: VU033544.D

Acq: 01 Aug 2019 12:26

Instrument :

MSVOA_U

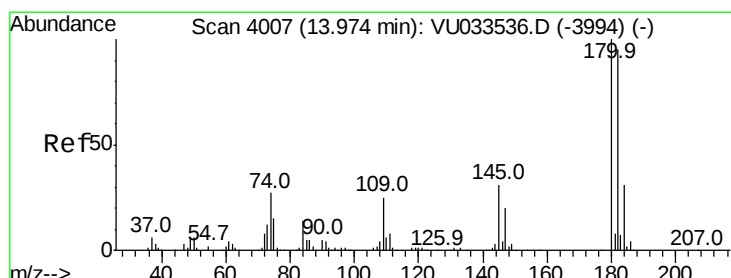
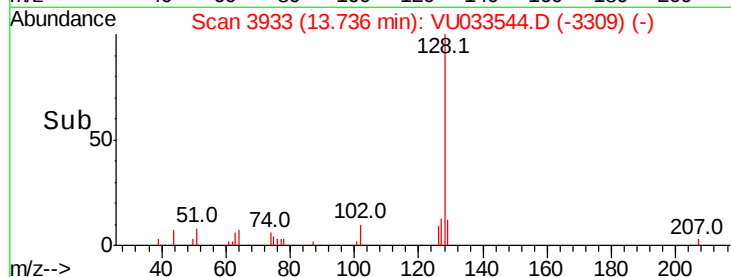
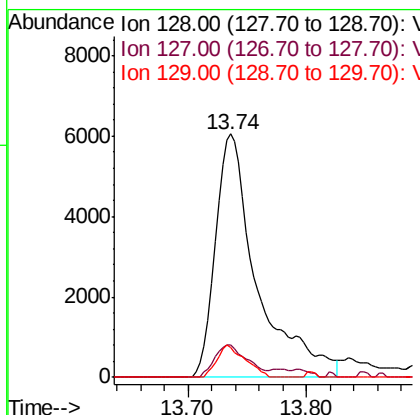
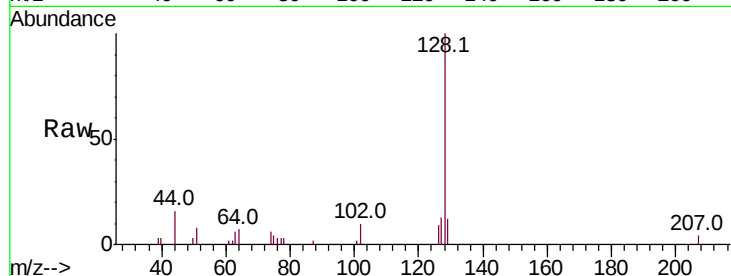
ClientSampleId :

MDL07

Tot Ion	Ratio	Lower	Upper
128	100		
127	10.3	10.8	16.2#
129	8.9	8.7	13.1

Manual Integrations
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#70

1,2,3-Trichlorobenzene

Concen: 2.182 ug/L

RT: 13.98 min Scan# 4010

Delta R.T. 0.01 min

Lab File: VU033544.D

Acq: 01 Aug 2019 12:26

Tgt Ion	Ratio	Lower	Upper
180	100		
182	87.3	75.5	113.3
145	25.3	24.4	36.6

