

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU072919\
 Data File : VU033478.D
 Acq On : 29 Jul 2019 19:15
 Operator : JC/SP
 Sample : MDL02
 Misc : 5.00u/5mL/100uL/5.0mL/MSVOA_U/MEOH
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL02

Manual Integrations
 APPROVED

MMDadoda
 7/30/2019 3:01:13 PM

Quant Time: Jul 30 04:38:37 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SFAMULM072919W.M
 Quant Title : VOC Analysis
 QLast Update : Tue Jul 30 04:12:14 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.86	114	294774	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	294943	50.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.47	152	137435	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	127703	47.71	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	95.42%
7) Chloroethane-d5	1.67	69	109938	49.71	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	99.42%
11) 1,1-Dichloroethene-d2	2.26	63	167210	34.16	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	68.32%
21) 2-Butanone-d5	4.15	46	135596	88.41	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	88.41%
24) Chloroform-d	4.62	84	179556	44.82	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	89.64%
26) 1,2-Dichloroethane-d4	5.29	65	130268	50.41	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	100.82%
32) Benzene-d6	5.32	84	400837	50.63	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	101.26%
36) 1,2-Dichloropropane-d6	6.31	67	126958	51.69	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	103.38%
41) Toluene-d8	7.55	98	364946	49.03	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	98.06%
43) trans-1,3-Dichloropropene-	7.83	79	57079	47.56	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	95.12%
47) 2-Hexanone-d5	8.30	63	105107	103.03	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	103.03%
56) 1,1,2,2-Tetrachloroethane-	10.41	84	186350	49.44	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	98.88%
66) 1,2-Dichlorobenzene-d4	11.85	152	140725	53.29	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	106.58%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	7209	2.451 ug/L	98
3) Chloromethane	1.32	50	7808	2.659 ug/L	99
5) Vinyl chloride	1.40	62	8490	2.528 ug/L #	71
6) Bromomethane	1.62	94	5788	2.466 ug/L	97
8) Chloroethane	1.69	64	5355	2.600 ug/L	99
9) Trichlorofluoromethane	1.87	101	11287	2.563 ug/L	96
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	6819	3.081 ug/L #	83
12) 1,1-Dichloroethene	2.27	96	6028	2.795 ug/L #	1
13) Acetone	2.31	43	6288	4.137 ug/L	98
14) Carbon disulfide	2.46	76	15342	2.388 ug/L	97
15) Methyl Acetate	2.60	43	5701	2.339 ug/L	93
16) Methylene chloride	2.68	84	6037	2.548 ug/L	93
17) trans-1,2-Dichloroethene	2.96	96	5297	2.473 ug/L	97
18) Methyl tert-butyl Ether	2.98	73	14189	2.245 ug/L	97
19) 1,1-Dichloroethane	3.43	63	9838	2.439 ug/L	96
20) cis-1,2-Dichloroethene	4.20	96	5923	2.505 ug/L	96
22) 2-Butanone	4.25	43	7450m	4.125 ug/L	

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

23) Bromochloromethane	4.53	128	2967	2.363	ug/L	89
25) Chloroform	4.65	83	32844	7.681	ug/L	100
27) 1,2-Dichloroethane	5.39	62	8508	2.562	ug/L #	95
29) Cyclohexane	4.96	56	6866	2.119	ug/L	93
30) 1,1,1-Trichloroethane	4.89	97	8746	2.490	ug/L	98
31) Carbon tetrachloride	5.11	117	7702	2.464	ug/L	99
33) Benzene	5.37	78	22270	2.526	ug/L	100
34) Trichloroethene	6.17	95	5817	2.533	ug/L	96
35) Methylcyclohexane	6.40	83	8015	2.295	ug/L	99
37) 1,2-Dichloropropane	6.41	63	6182	2.607	ug/L	98
38) Bromodichloromethane	6.74	83	7793	2.497	ug/L	96
39) cis-1,3-Dichloropropene	7.25	75	8148	2.305	ug/L	99
40) 4-Methyl-2-pentanone	7.45	43	13897	4.448	ug/L	94
42) Toluene	7.62	91	23246	2.450	ug/L	96
44) trans-1,3-Dichloropropene	7.86	75	7839m	2.443	ug/L	
45) 1,1,2-Trichloroethane	8.05	97	5675	2.510	ug/L	98
46) Tetrachloroethene	8.21	164	4483	2.398	ug/L	94
48) 2-Hexanone	8.35	43	15665	6.154	ug/L	98
49) Dibromochloromethane	8.46	129	5949	2.350	ug/L	99
50) 1,2-Dibromoethane	8.57	107	5937	2.420	ug/L	93
51) Chlorobenzene	9.10	112	15417	2.446	ug/L	97
52) Ethylbenzene	9.23	91	22480	2.186	ug/L	95
53) m,p-Xylene	9.36	106	7974	2.062	ug/L	97
54) o-xylene	9.76	106	7527	1.985	ug/L	98
55) Styrene	9.78	104	12101	1.881	ug/L	96
57) 1,1,2,2-Tetrachloroethane	10.44	83	11057	2.750	ug/L #	99
59) Bromoform	9.94	173	4223	2.456	ug/L #	93
60) 1,2,3-Trichloropropane	10.48	75	7551	2.697	ug/L	97
61) Isopropylbenzene	10.15	105	18985	2.157	ug/L	97
62) 1,3,5-Trimethylbenzene	10.76	105	14404	2.019	ug/L	100
63) 1,2,4-Trimethylbenzene	11.13	105	13748	1.943	ug/L	99
64) 1,3-Dichlorobenzene	11.40	146	11272	2.512	ug/L	99
65) 1,4-Dichlorobenzene	11.49	146	11420	2.464	ug/L	94
67) 1,2-Dichlorobenzene	11.86	146	12060	2.683	ug/L	98
68) 1,2-Dibromo-3-chloropropan	12.64	75	1912	2.456	ug/L	92
69) 1,3,5-Trichlorobenzene	12.88	180	7529	2.210	ug/L	96
70) 1,2,4-trichlorobenzene	13.50	180	4698	1.652	ug/L	96
71) Naphthalene	13.74	128	12204	1.484	ug/L	95
72) 1,2,3-Trichlorobenzene	13.98	180	5541	1.860	ug/L	93

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

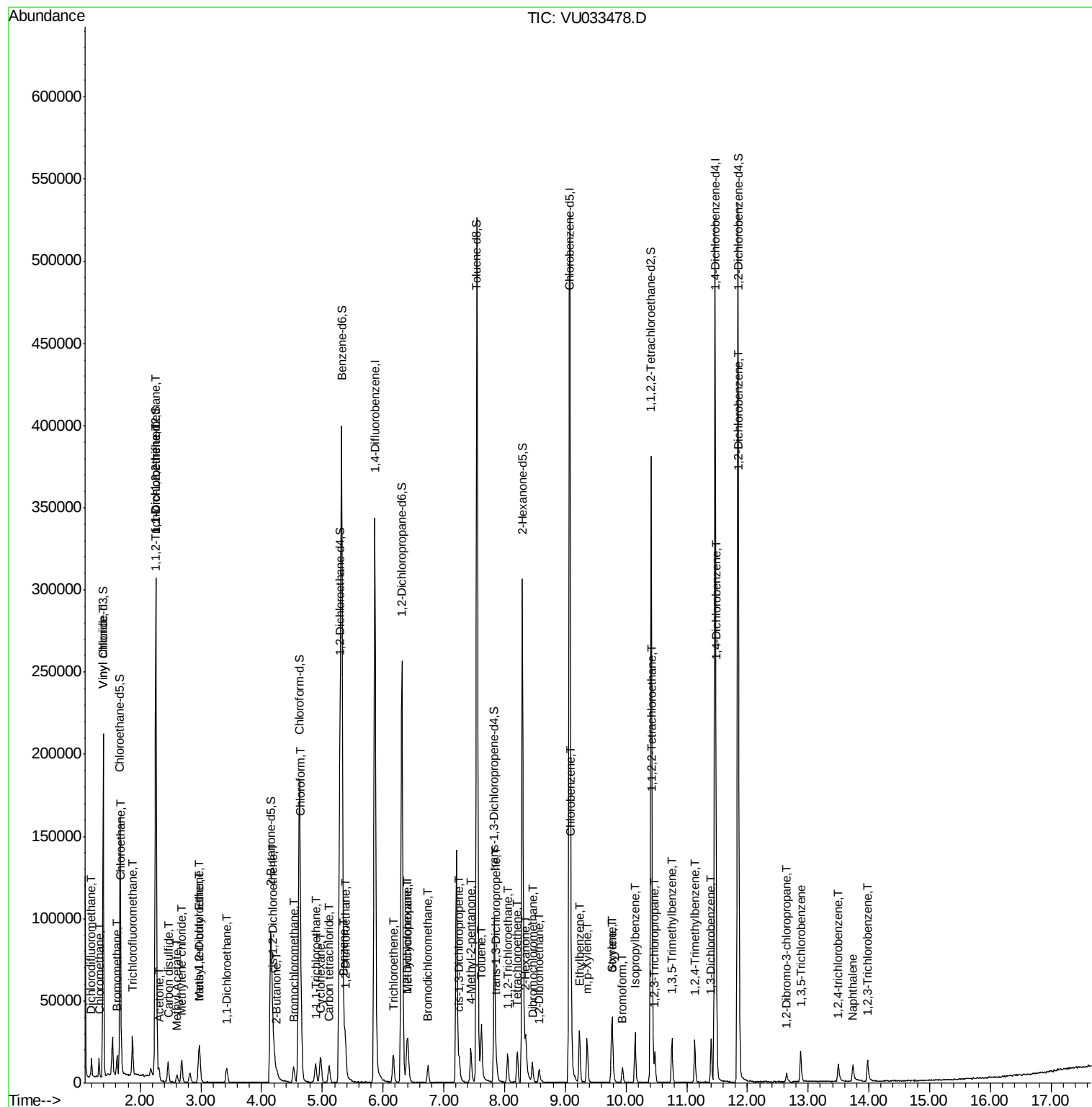
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU072919\
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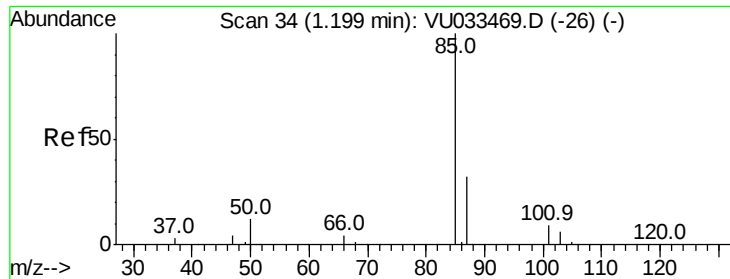
Instrument :
MSVOA_U
ClientSampleID :
MDL02

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#2

Dichlorodifluoromethane

Concen: 2.451 ug/L

RT: 1.20 min Scan# 34

Delta R.T. 0.00 min

Lab File: VU033478.D

Acq: 29 Jul 2019 19:15

Instrument :

MSVOA_U

ClientSampleId :

MDL02

Tot Ion: 85 Resp: 7209

Ion Ratio Lower Upper

85 100

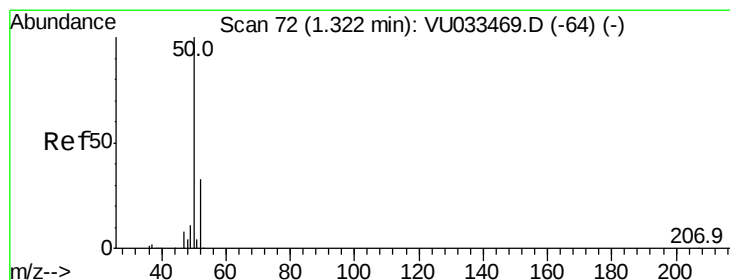
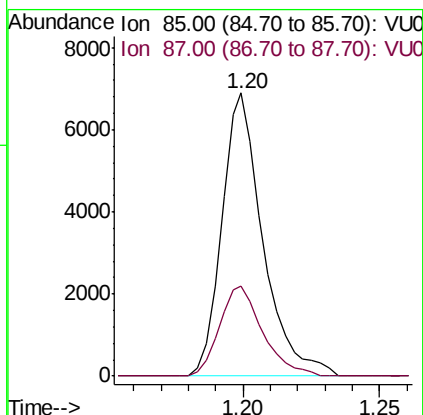
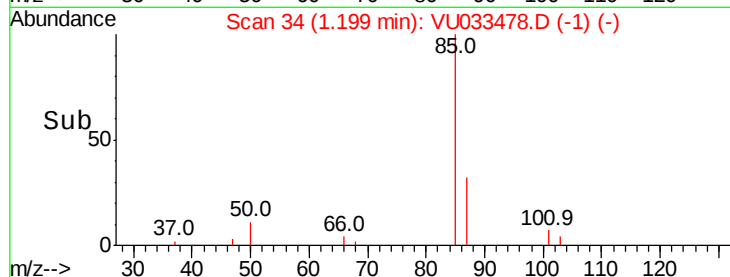
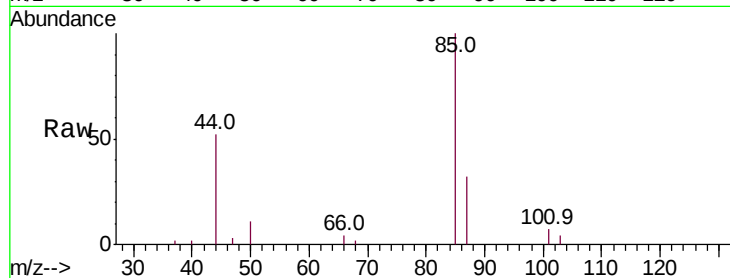
87 33.4 25.7 38.5

Manual Integrations

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#3

Chloromethane

Concen: 2.659 ug/L

RT: 1.32 min Scan# 72

Delta R.T. 0.00 min

Lab File: VU033478.D

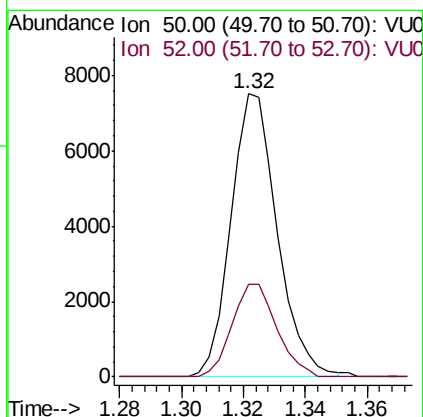
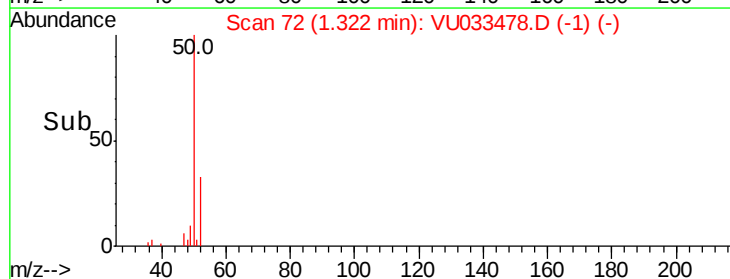
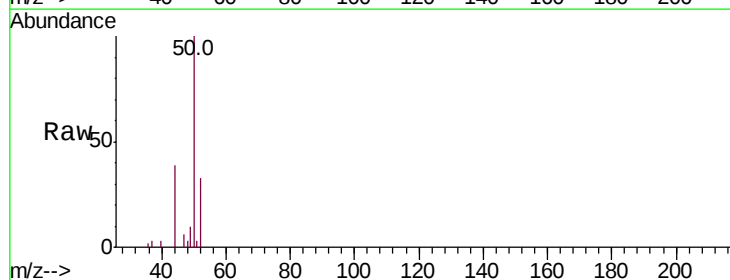
Acq: 29 Jul 2019 19:15

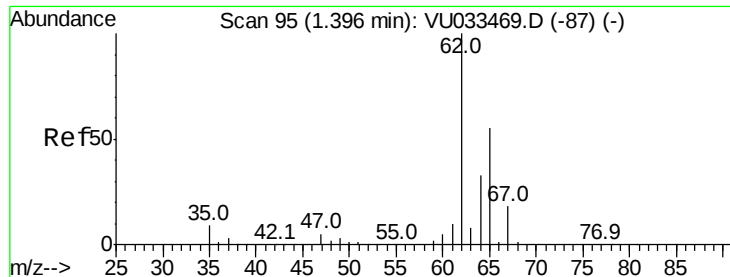
Tgt Ion: 50 Resp: 7808

Ion Ratio Lower Upper

50 100

52 32.7 23.3 43.3





#5

Vinyl chloride

Concen: 2.528 ug/L

RT: 1.40 min Scan# 95

Delta R.T. 0.00 min

Lab File: VU033478.D

Acq: 29 Jul 2019 19:15

Instrument :

MSVOA_U

ClientSampleId :

MDL02

Tot Ion: 62 Resp: 8490

Ion Ratio Lower Upper

62 100

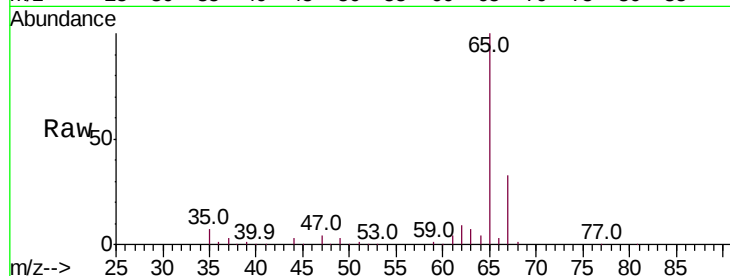
64 49.1 23.0 42.6#

Manual Integrations

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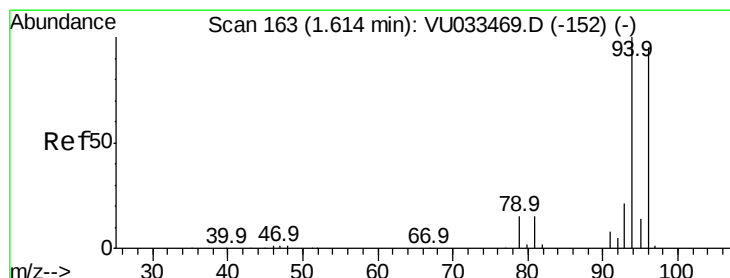
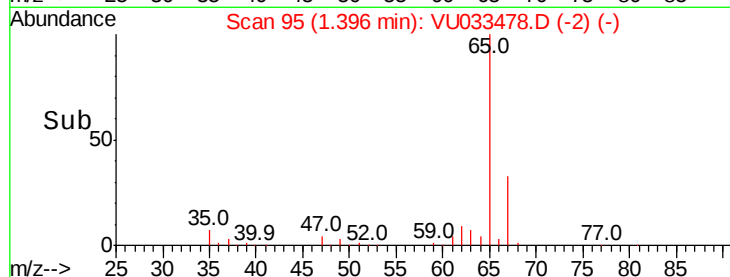
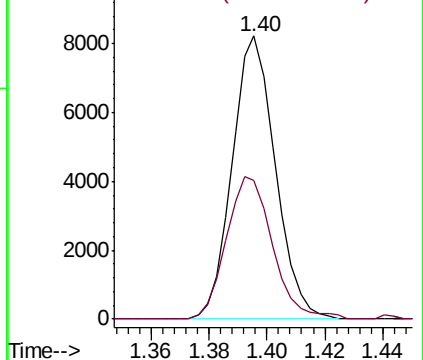
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Abundance Ion 62.00 (61.70 to 62.70): VU033469.D (-87) (-)

Ion 64.00 (63.70 to 64.70): VU033478.D (-2) (-)



#6

Bromomethane

Concen: 2.466 ug/L

RT: 1.62 min Scan# 164

Delta R.T. 0.00 min

Lab File: VU033478.D

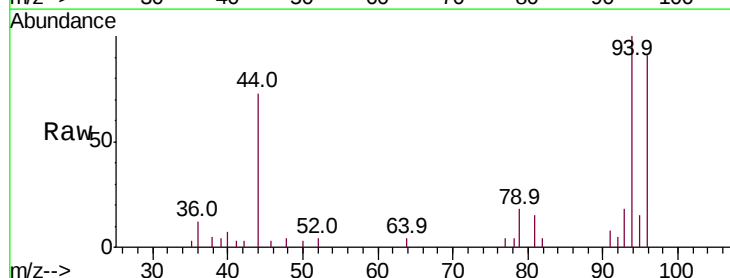
Acq: 29 Jul 2019 19:15

Tgt Ion: 94 Resp: 5788

Ion Ratio Lower Upper

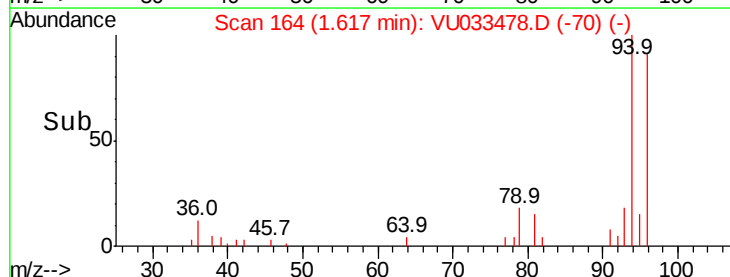
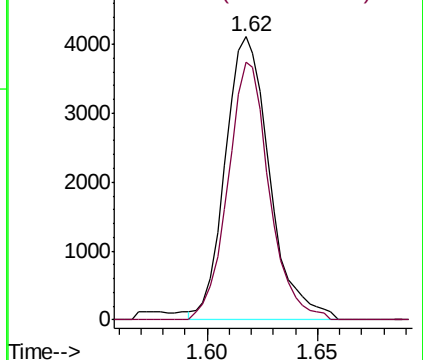
94 100

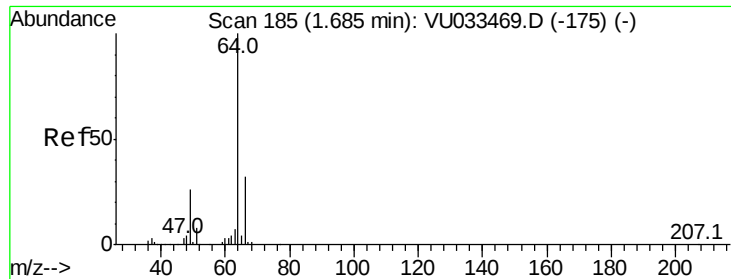
96 91.3 66.2 123.0



Abundance Ion 94.00 (93.70 to 94.70): VU033469.D (-152) (-)

Ion 96.00 (95.70 to 96.70): VU033478.D (-70) (-)





#8

Chloroethane

Concen: 2.600 ug/L

RT: 1.69 min Scan# 186

Delta R.T. 0.00 min

Lab File: VU033478.D

Acq: 29 Jul 2019 19:15

Instrument :

MSVOA_U

ClientSampled :

MDL02

Tot Ion: 64 Resp: 5355

Ion Ratio Lower Upper

64 100

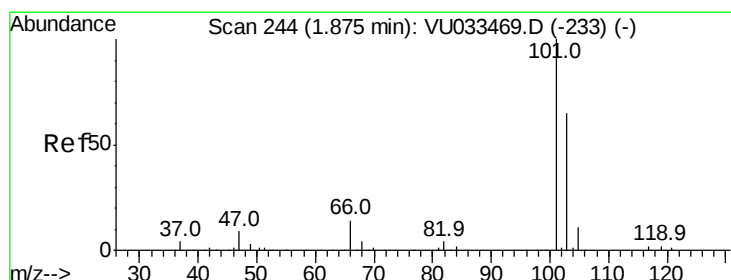
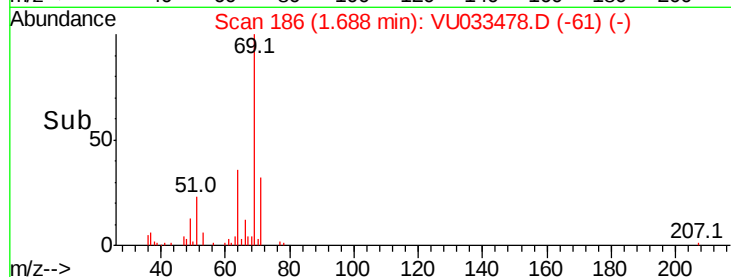
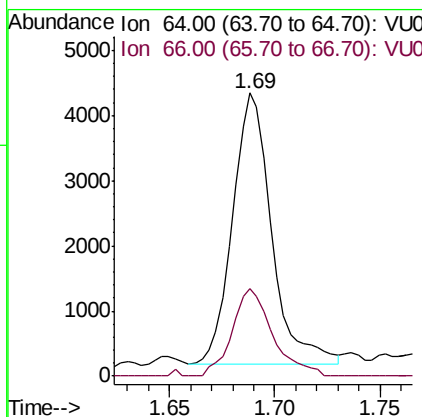
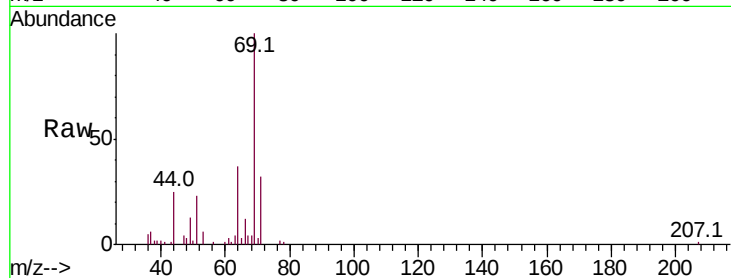
66 30.8 22.1 41.1

Manual Integrations

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#9

Trichlorofluoromethane

Concen: 2.563 ug/L

RT: 1.87 min Scan# 244

Delta R.T. 0.00 min

Lab File: VU033478.D

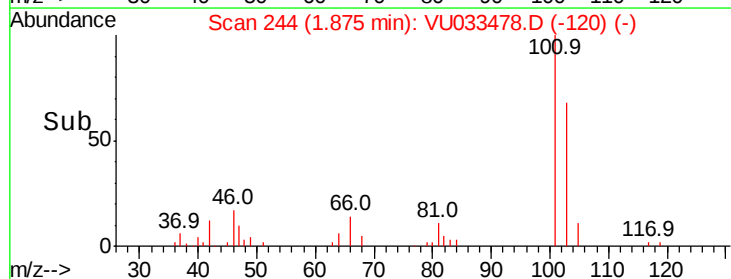
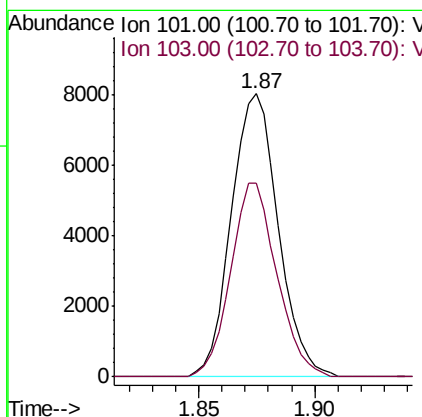
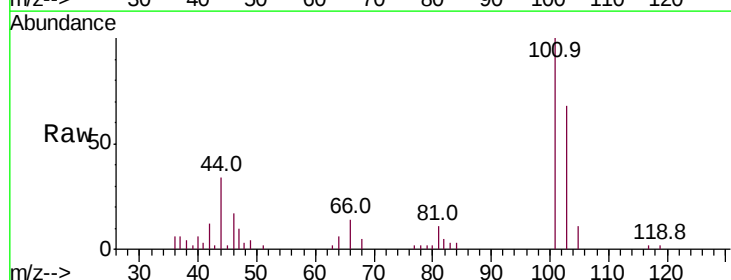
Acq: 29 Jul 2019 19:15

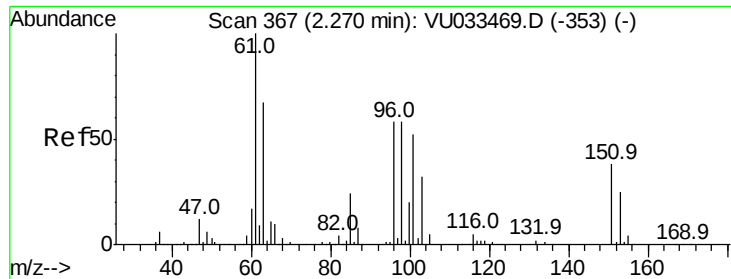
Tgt Ion: 101 Resp: 11287

Ion Ratio Lower Upper

101 100

103 67.2 51.2 76.8





#10

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

Concen: 3.081 ug/L

RT: 2.27 min Scan# 367

Delta R.T. 0.00 min

Lab File: VU033478.D

Acq: 29 Jul 2019 19:15

Instrument :

MSVOA_U

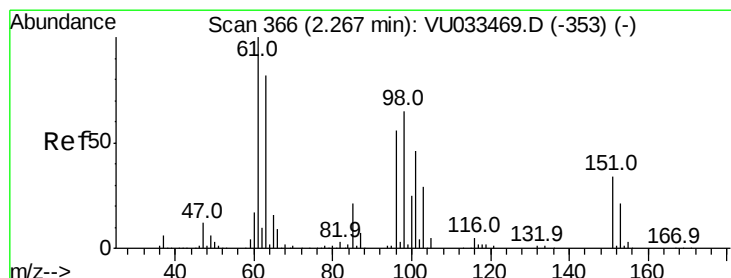
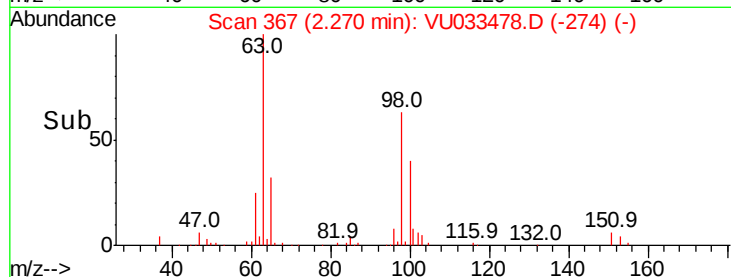
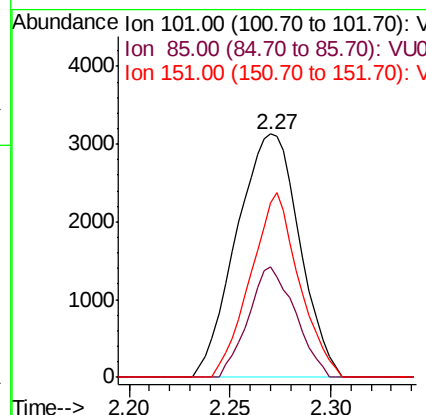
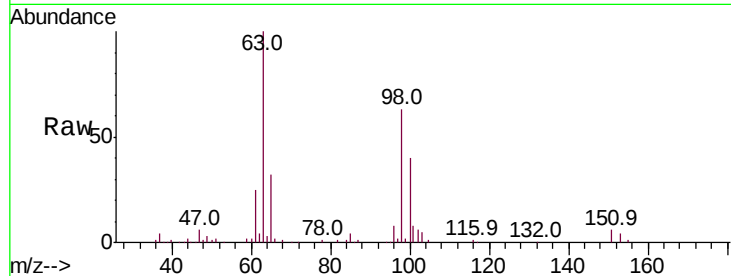
ClientSampleId :

MDL02

Tot Ion:	101	Resp:	6819
Ion Ratio	Lower	Upper	
101	100		
85	33.9	35.8	53.8#
151	58.6	58.6	87.8

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#12

1,1-Dichloroethene

Concen: 2.795 ug/L

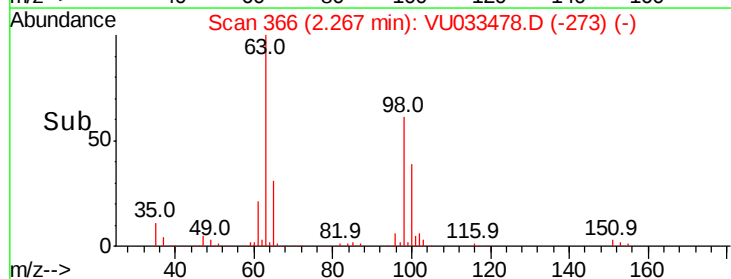
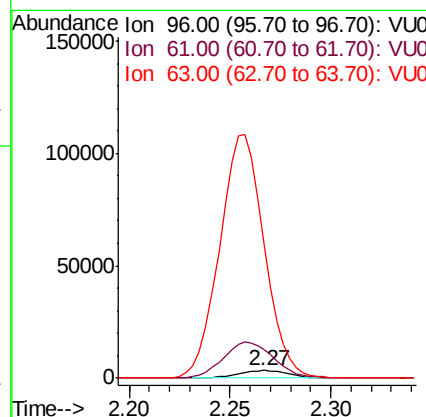
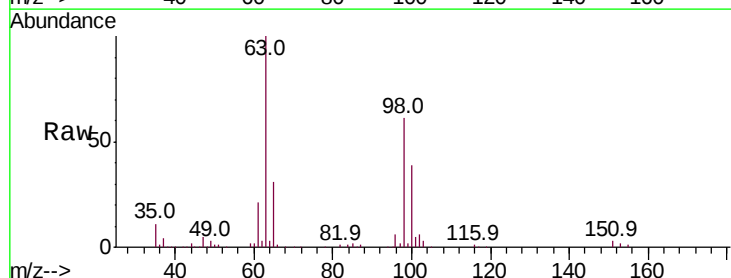
RT: 2.27 min Scan# 366

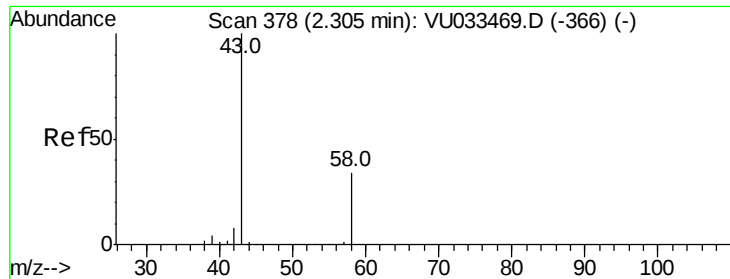
Delta R.T. 0.00 min

Lab File: VU033478.D

Acq: 29 Jul 2019 19:15

Tgt Ion:	96	Resp:	6028
Ion Ratio	Lower	Upper	
96	100		
61	370.9	124.1	230.5#
63	1754.3	101.8	189.2#





#13

Acetone

Concen: 4.137 ug/L

RT: 2.31 min Scan# 378

Delta R.T. 0.00 min

Lab File: VU033478.D

Acq: 29 Jul 2019 19:15

Instrument :

MSVOA_U

ClientSampleId :

MDL02

Tot Ion: 43 Resp: 6288

Ion Ratio Lower Upper

43 100

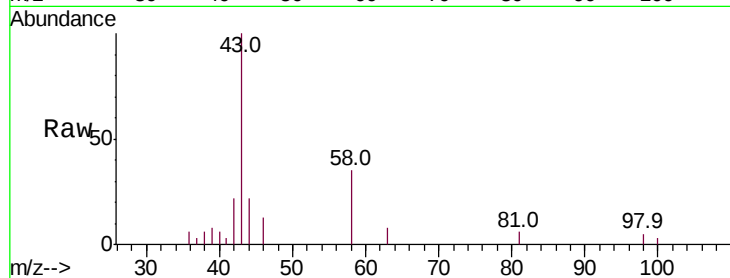
58 35.1 0.0 67.4

Manual Integrations

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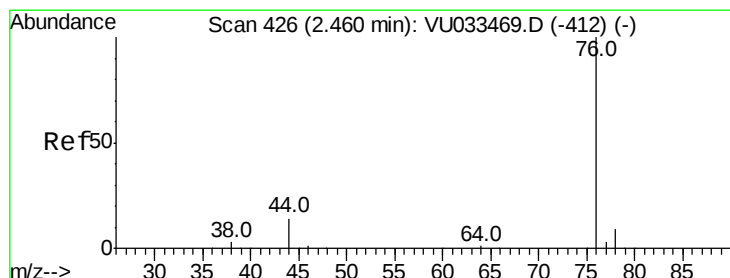
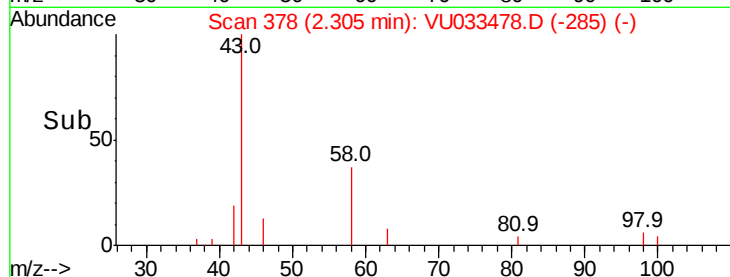
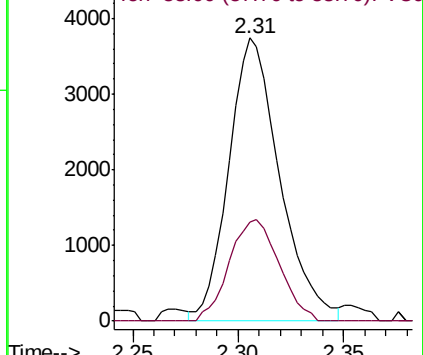
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Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0



#14

Carbon disulfide

Concen: 2.388 ug/L

RT: 2.46 min Scan# 426

Delta R.T. 0.00 min

Lab File: VU033478.D

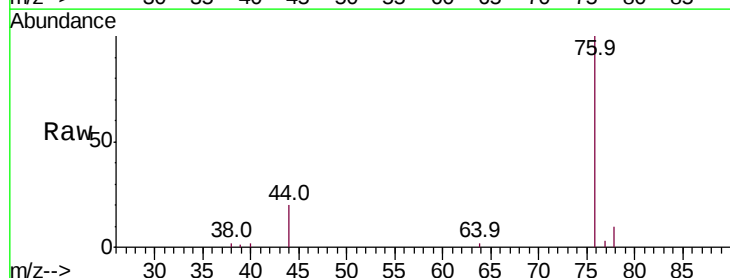
Acq: 29 Jul 2019 19:15

Tgt Ion: 76 Resp: 15342

Ion Ratio Lower Upper

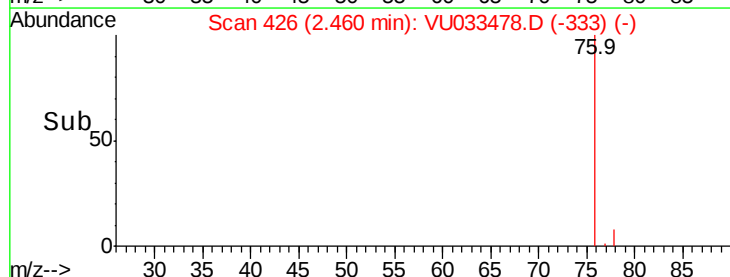
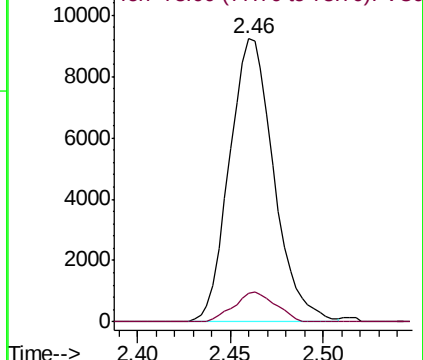
76 100

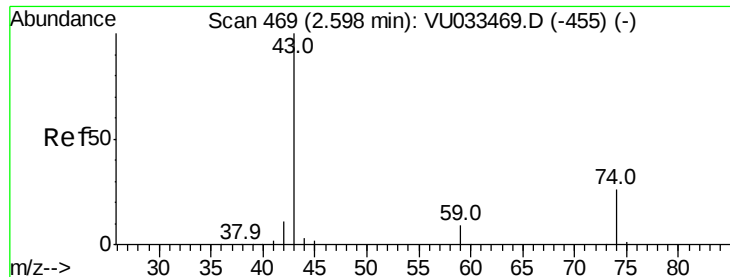
78 10.0 7.2 10.8



Abundance Ion 76.00 (75.70 to 76.70): VU0

Ion 78.00 (77.70 to 78.70): VU0





#15

Methvl Acetate

Concen: 2.339 ug/L

RT: 2.60 min Scan# 470

Delta R.T. 0.00 min

Lab File: VU033478.D

Acq: 29 Jul 2019 19:15

Instrument :

MSVOA_U

ClientSampleId :

MDL02

Tot Ion: 43 Resp: 5701

Ion Ratio Lower Upper

43 100

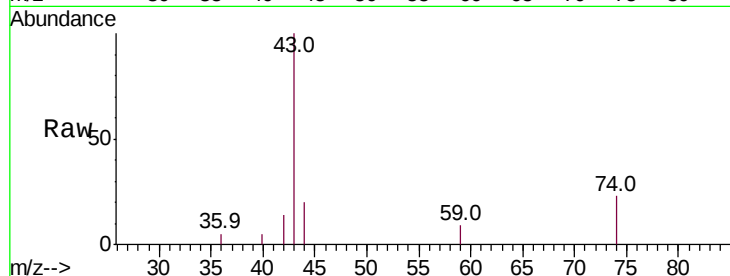
74 22.0 20.5 30.7

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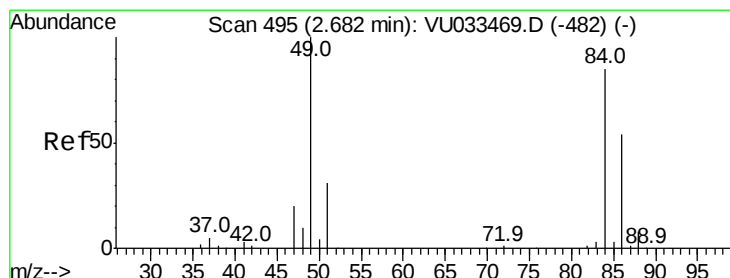
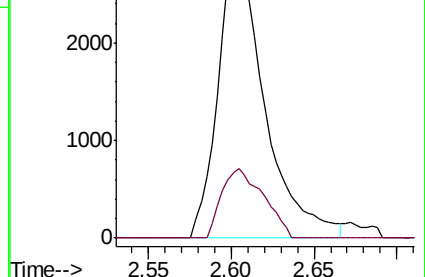
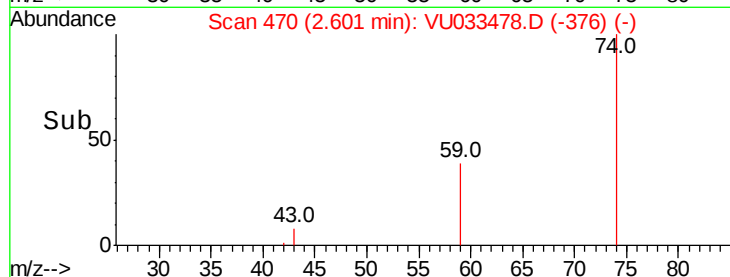


Abundance Ion 43.00 (42.70 to 43.70): VU033469.D (-455) (-)

Ion 74.00 (73.70 to 74.70): VU033469.D (-455) (-)

2.60

2.65



#16

Methylene chloride

Concen: 2.548 ug/L

RT: 2.68 min Scan# 496

Delta R.T. 0.00 min

Lab File: VU033478.D

Acq: 29 Jul 2019 19:15

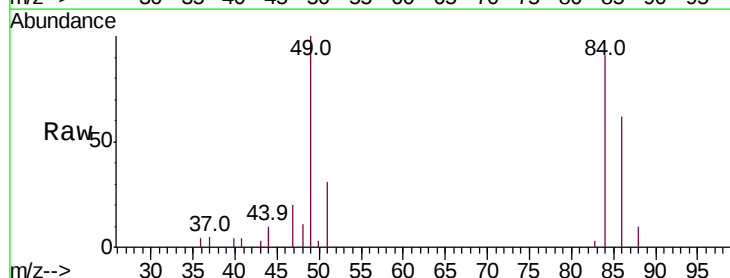
Tgt Ion: 84 Resp: 6037

Ion Ratio Lower Upper

84 100

86 68.6 44.2 82.0

49 110.0 82.3 152.8



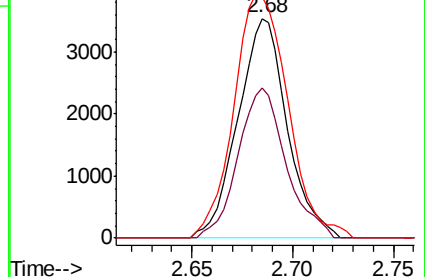
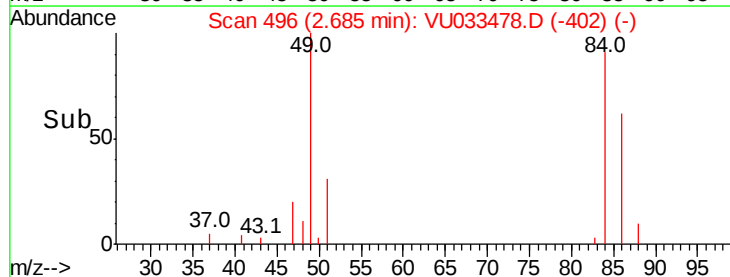
Abundance Ion 84.00 (83.70 to 84.70): VU033469.D (-482) (-)

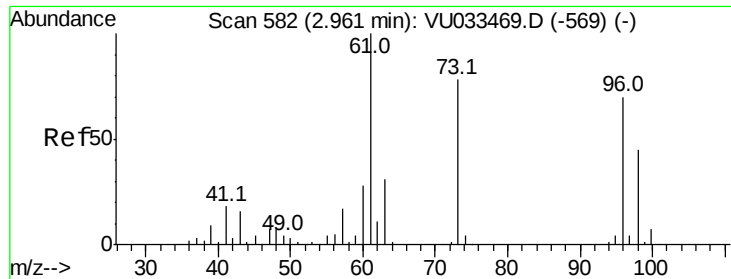
Ion 86.00 (85.70 to 86.70): VU033469.D (-482) (-)

Ion 49.00 (48.70 to 49.70): VU033469.D (-482) (-)

2.68

2.75





#17

trans-1,2-Dichloroethene

Concen: 2.473 ug/L

RT: 2.96 min Scan# 583

Delta R.T. 0.00 min

Lab File: VU033478.D

Acq: 29 Jul 2019 19:15

Instrument :

MSVOA_U

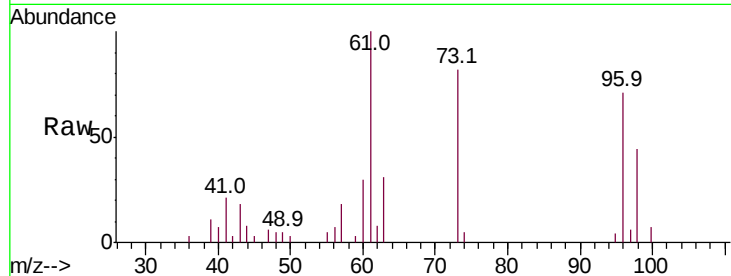
ClientSampled :

MDL02

Tot Ion:	96	Resp:	5297
Ion	Ratio	Lower	Upper
96	100		
61	140.8	100.3	186.3
98	61.6	45.1	83.9

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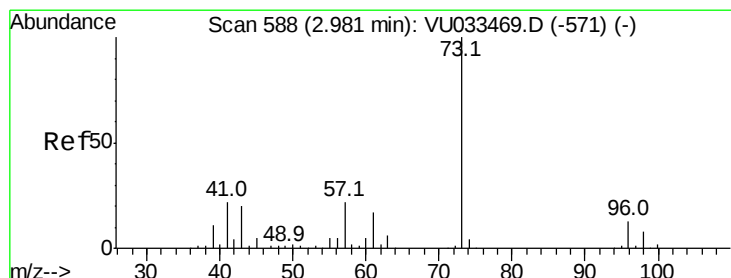
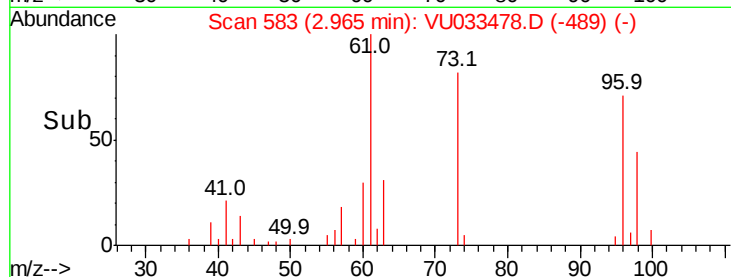
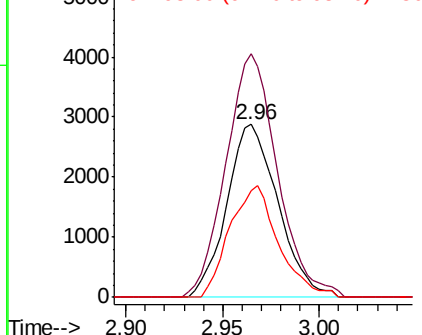
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Abundance Ion 96.00 (95.70 to 96.70): VU033469.D (-569) (-)

Ion 61.00 (60.70 to 61.70): VU033469.D (-569) (-)

Ion 98.00 (97.70 to 98.70): VU033469.D (-569) (-)



#18

Methyl tert-butyl Ether

Concen: 2.245 ug/L

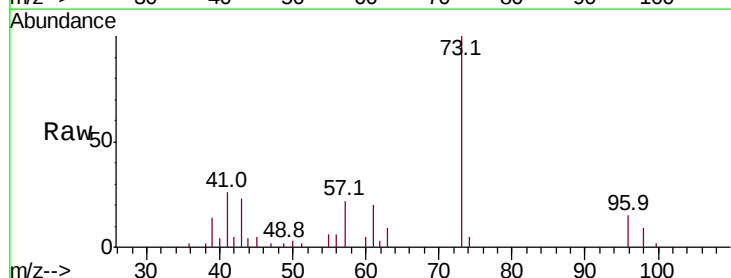
RT: 2.98 min Scan# 589

Delta R.T. 0.00 min

Lab File: VU033478.D

Acq: 29 Jul 2019 19:15

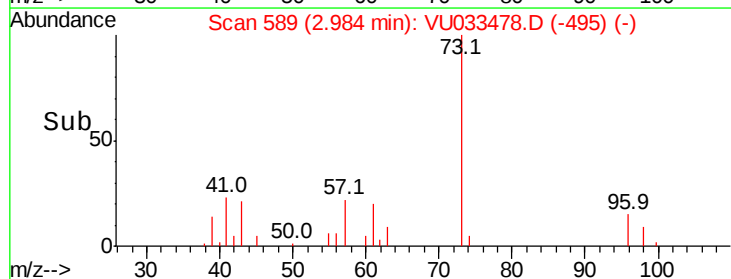
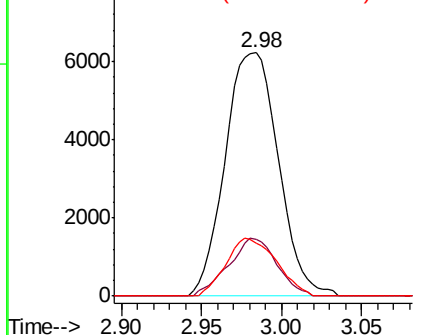
Tgt Ion:	73	Resp:	14189
Ion	Ratio	Lower	Upper
73	100		
43	21.4	15.3	22.9
57	22.3	17.7	26.5

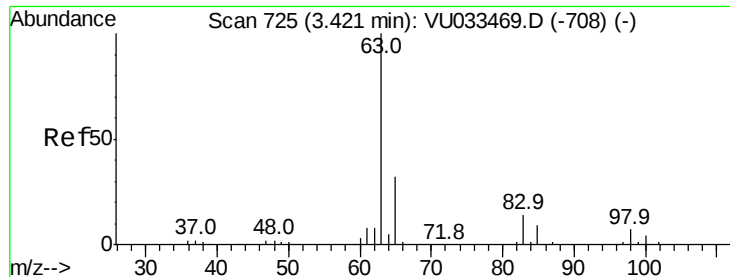


Abundance Ion 73.00 (72.70 to 73.70): VU033469.D (-571) (-)

Ion 43.00 (42.70 to 43.70): VU033469.D (-571) (-)

Ion 57.00 (56.70 to 57.70): VU033469.D (-571) (-)





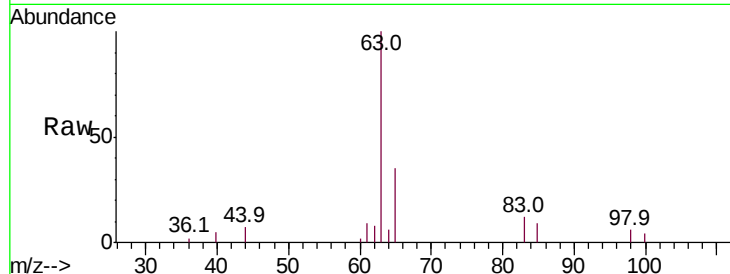
#19
 1,1-Dichloroethane
 Concen: 2.439 ug/L
 RT: 3.43 min Scan# 727
 Delta R.T. 0.01 min
 Lab File: VU033478.D
 Acq: 29 Jul 2019 19:15

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL02

Tot Ion	Ratio	Lower	Upper
63	100		
65	34.5	22.7	42.1
83	12.0	9.4	17.6

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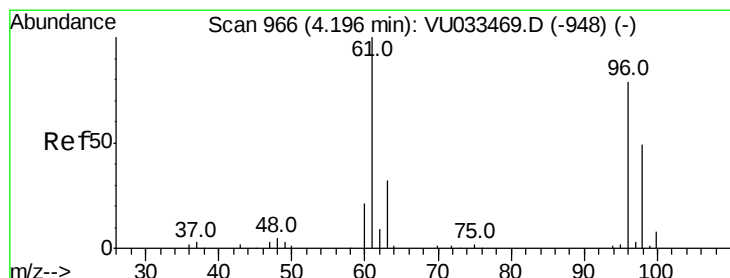
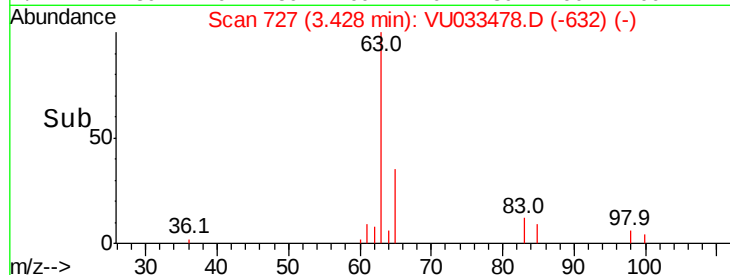
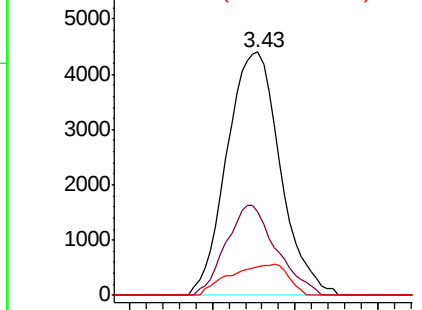
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Abundance Ion 63.00 (62.70 to 63.70): VU033469.D (-708) (-)

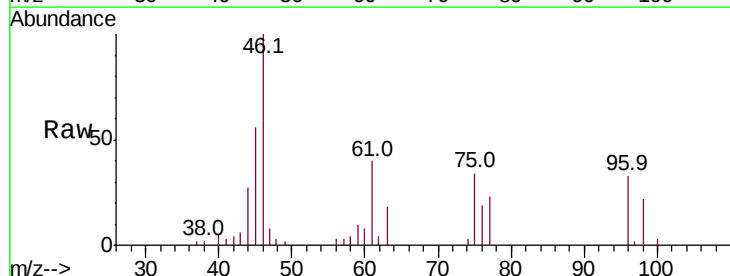
Ion 65.00 (64.70 to 65.70): VU033469.D (-708) (-)

Ion 83.00 (82.70 to 83.70): VU033469.D (-708) (-)



#20
 cis-1,2-Dichloroethene
 Concen: 2.505 ug/L
 RT: 4.20 min Scan# 966
 Delta R.T. 0.00 min
 Lab File: VU033478.D
 Acq: 29 Jul 2019 19:15

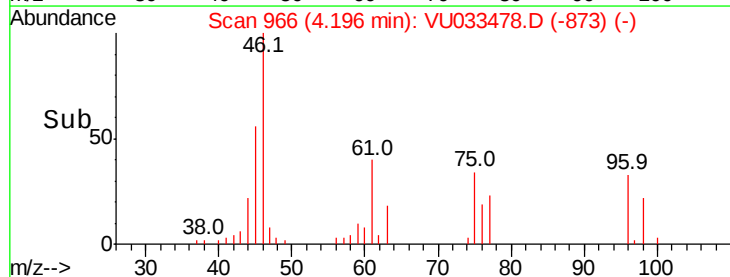
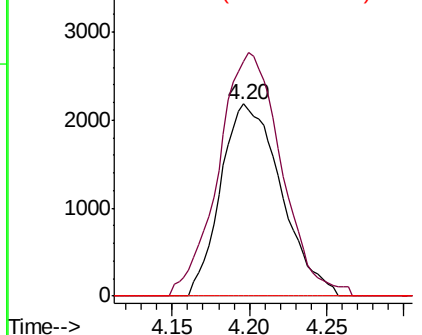
Tgt Ion	Ratio	Lower	Upper
96	100		
61	122.2	88.9	165.1
68	0.0	0.0	0.0

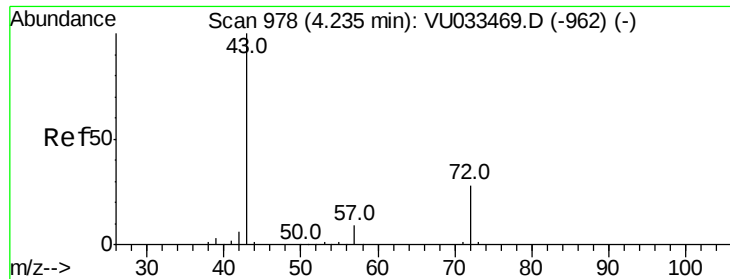


Abundance Ion 96.00 (95.70 to 96.70): VU033469.D (-948) (-)

Ion 61.00 (60.70 to 61.70): VU033469.D (-948) (-)

Ion 68.00 (67.70 to 68.70): VU033469.D (-948) (-)





#22

2-Butanone

Concen: 4.125 ug/L m

RT: 4.25 min Scan# 983

Delta R.T. 0.02 min

Lab File: VU033478.D

Acq: 29 Jul 2019 19:15

Instrument :

MSVOA_U

ClientSampled :

MDL02

Tot Ion: 43 Resp: 7450

Ion Ratio Lower Upper

43 100

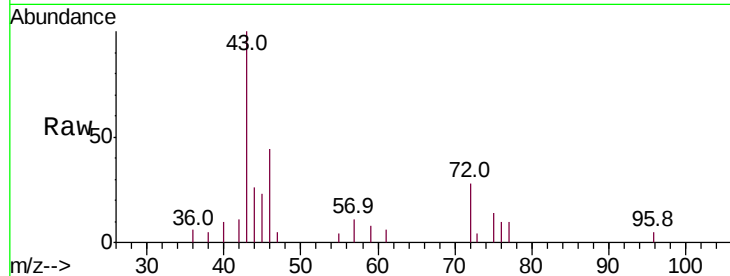
72 8.1 14.1 42.3#

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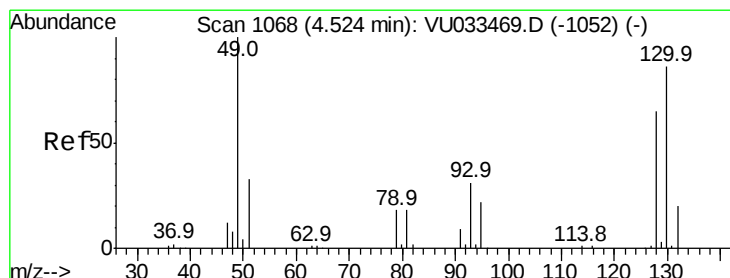
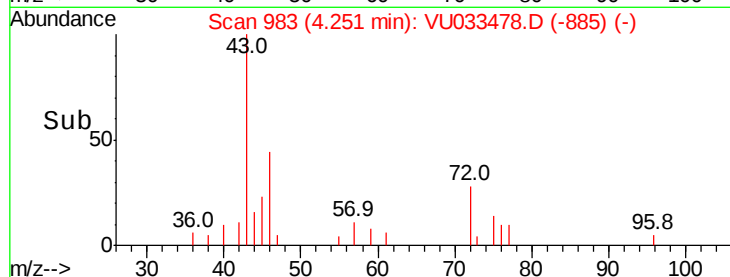
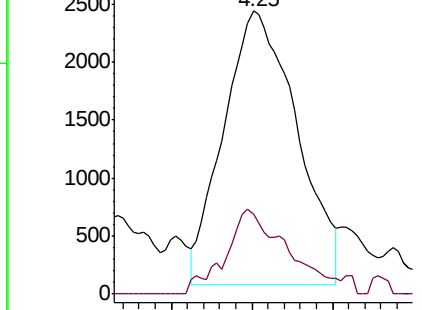
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Abundance Ion 43.00 (42.70 to 43.70): VU033469.D (-962) (-)

Ion 72.00 (71.70 to 72.70): VU033469.D (-962) (-)



#23

Bromochloromethane

Concen: 2.363 ug/L

RT: 4.53 min Scan# 1069

Delta R.T. 0.00 min

Lab File: VU033478.D

Acq: 29 Jul 2019 19:15

Tgt Ion:128 Resp: 2967

Ion Ratio Lower Upper

128 100

49 176.1 108.0 200.6

130 127.6 92.9 172.5

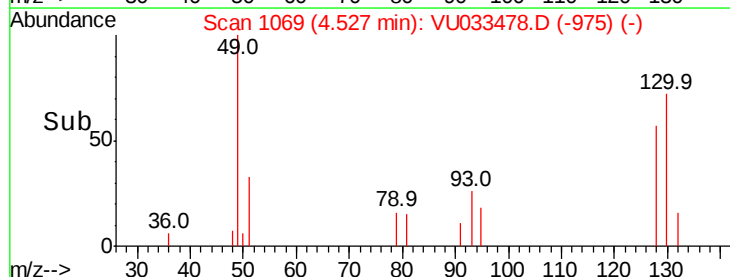
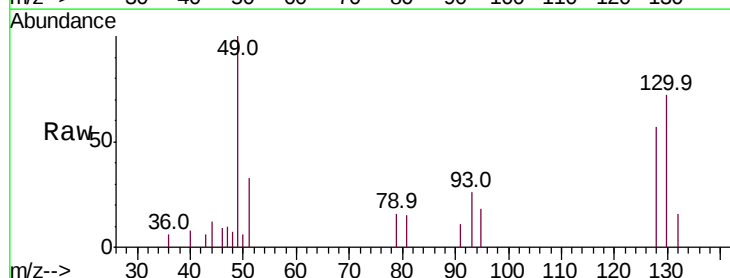
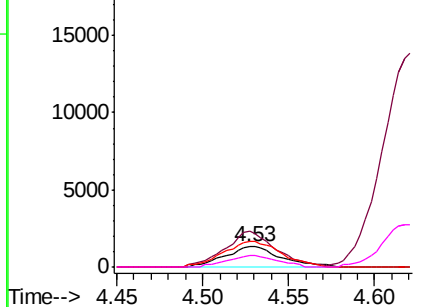
51 58.9 40.2 60.4

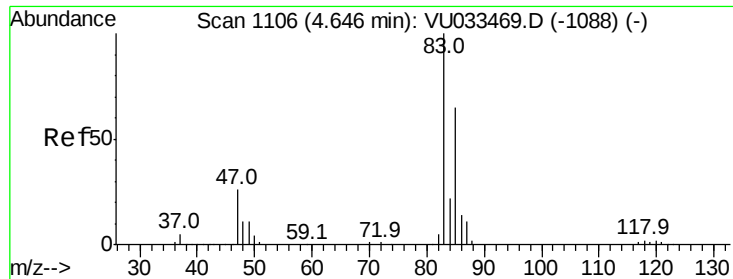
Abundance Ion 128.00 (127.70 to 128.70): VU033469.D (-1052) (-)

Ion 49.00 (48.70 to 49.70): VU033469.D (-1052) (-)

Ion 130.00 (129.70 to 130.70): VU033469.D (-1052) (-)

Ion 51.00 (50.70 to 51.70): VU033469.D (-1052) (-)





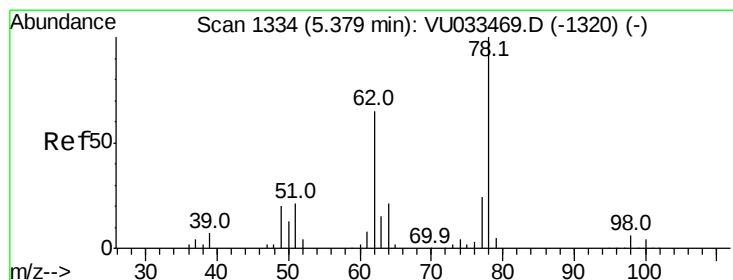
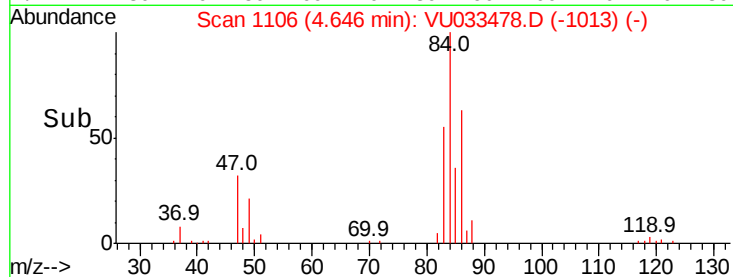
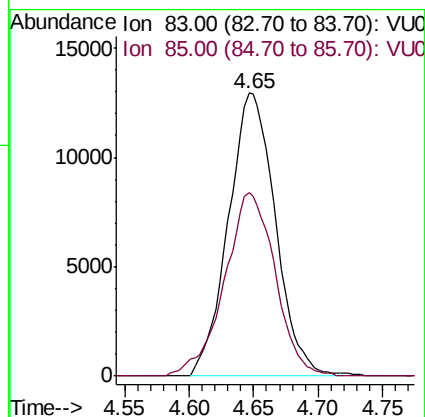
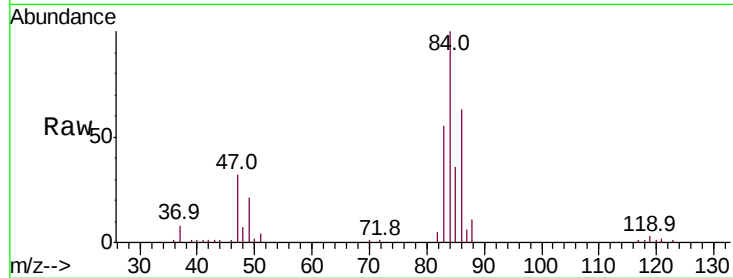
#25
Chloroform
Concen: 7.681 ug/L
RT: 4.65 min Scan# 1106
Delta R.T. 0.00 min
Lab File: VU033478.D
Acq: 29 Jul 2019 19:15

Instrument :
MSVOA_U
ClientSampleId :
MDL02

Tot Ion: 83 Resp: 32844
Ion Ratio Lower Upper
83 100
85 65.0 45.6 84.8

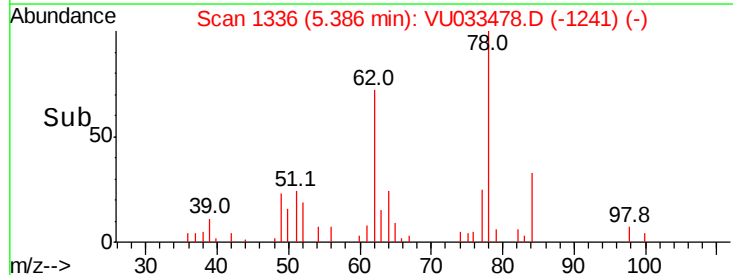
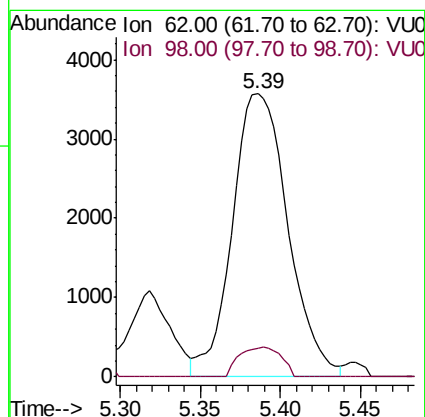
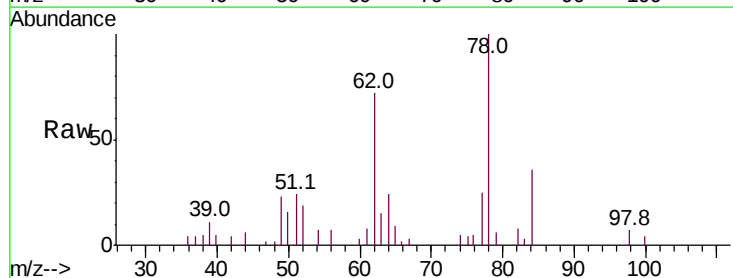
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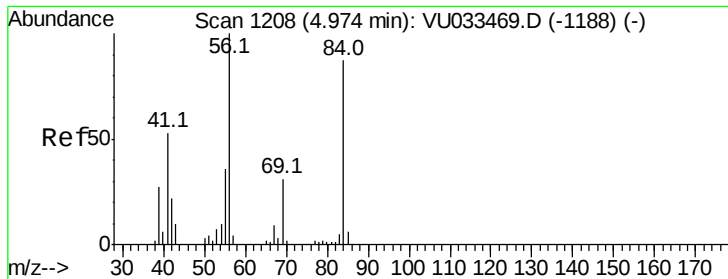
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#27
1,2-Dichloroethane
Concen: 2.562 ug/L
RT: 5.39 min Scan# 1336
Delta R.T. 0.01 min
Lab File: VU033478.D
Acq: 29 Jul 2019 19:15

Tgt Ion: 62 Resp: 8508
Ion Ratio Lower Upper
62 100
98 10.3 6.7 10.1#





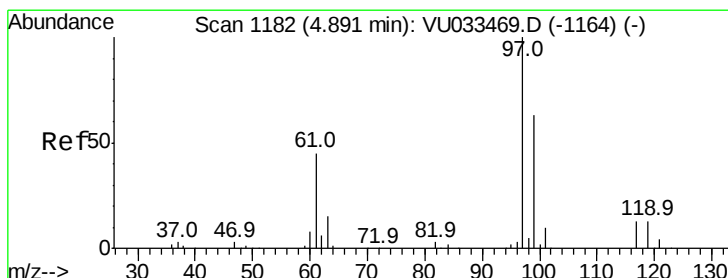
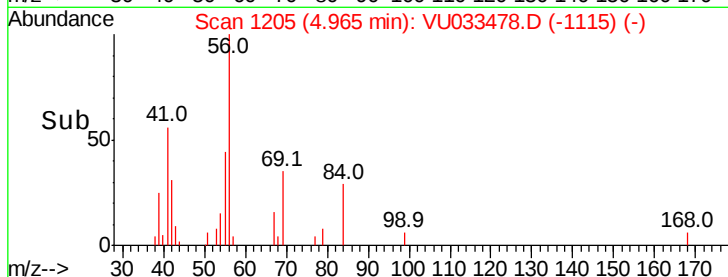
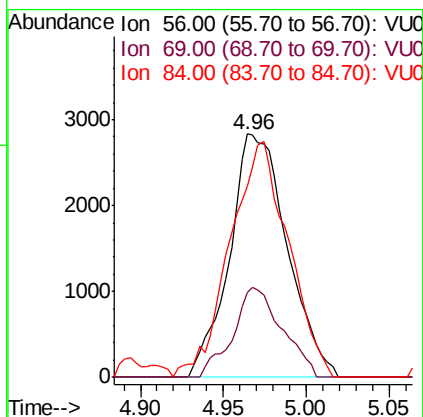
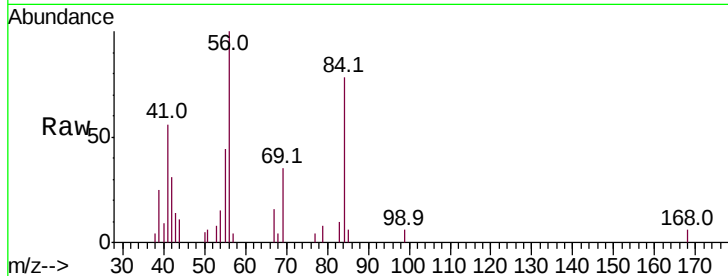
#29
Cyclohexane
Concen: 2.119 ug/L
RT: 4.96 min Scan# 1205
Delta R.T. -0.01 min
Lab File: VU033478.D
Acq: 29 Jul 2019 19:15

Instrument :
MSVOA_U
ClientSampleId :
MDL02

Tot Ion	Ratio	Lower	Upper
56	100		
69	31.4	25.3	37.9
84	96.2	69.6	104.4

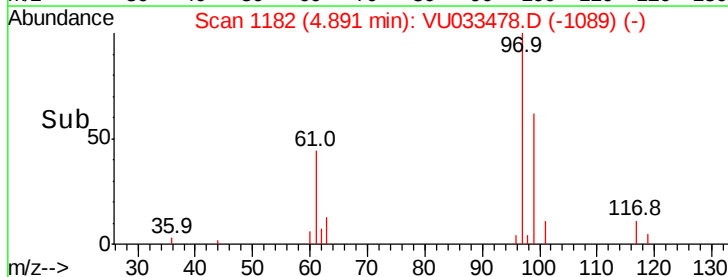
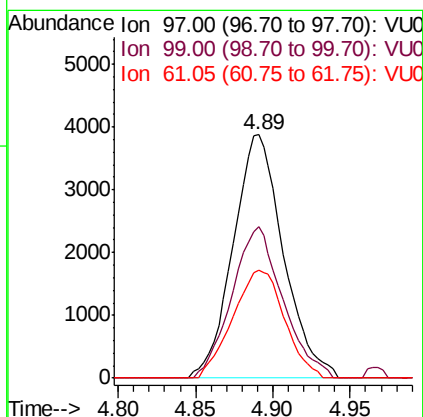
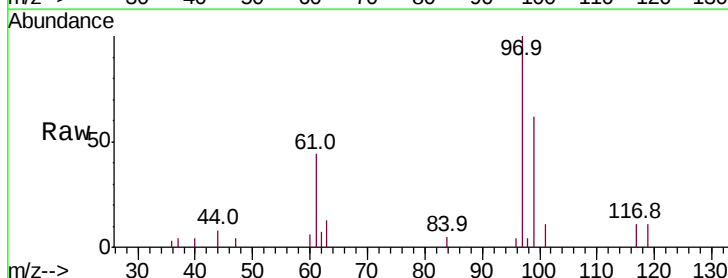
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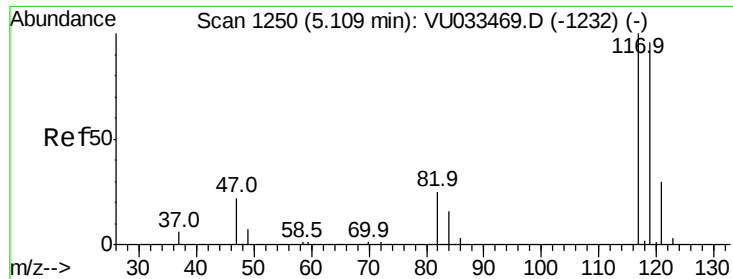
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#30
1,1,1-Trichloroethane
Concen: 2.490 ug/L
RT: 4.89 min Scan# 1182
Delta R.T. 0.00 min
Lab File: VU033478.D
Acq: 29 Jul 2019 19:15

Tgt Ion	Ratio	Lower	Upper
97	100		
99	62.9	51.8	77.6
61	45.8	36.2	54.2





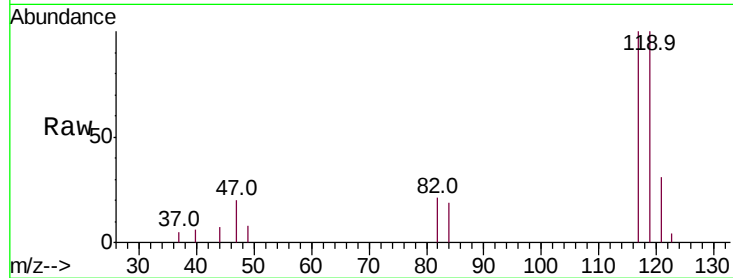
#31
Carbon tetrachloride
Concen: 2.464 ug/L
RT: 5.11 min Scan# 1251
Delta R.T. 0.00 min
Lab File: VU033478.D
Acq: 29 Jul 2019 19:15

Instrument :
MSVOA_U
ClientSampleId :
MDL02

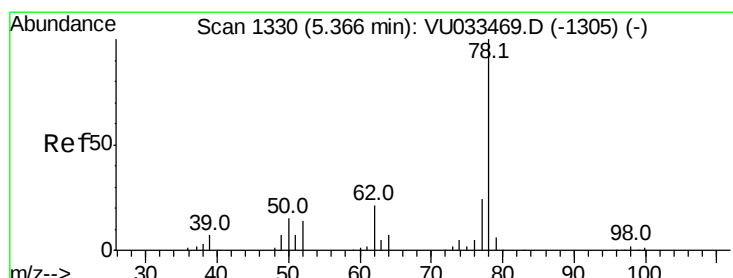
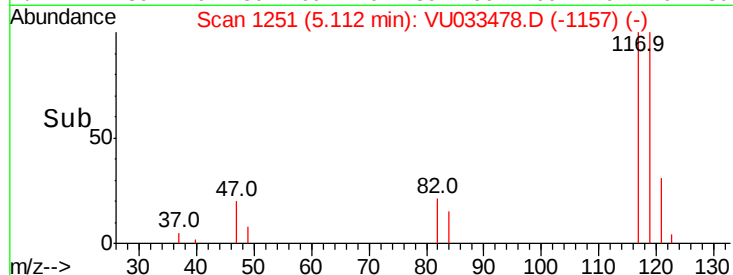
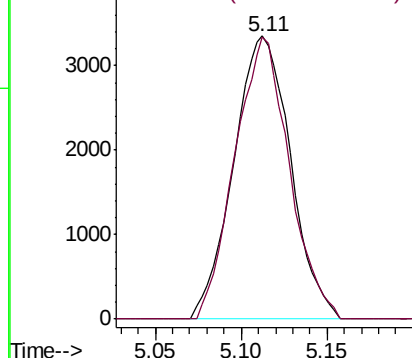
Tot Ion:117 Resp: 7702
Ion Ratio Lower Upper
117 100
119 95.3 76.8 115.2

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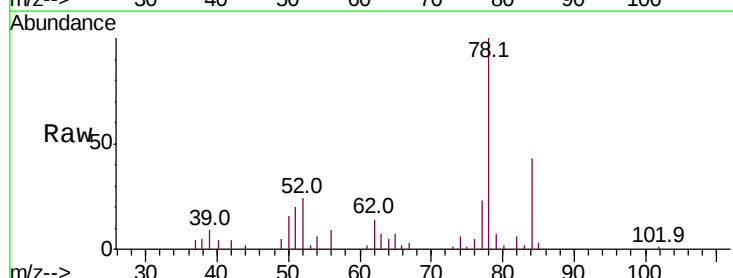


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 119.00 (118.70 to 119.70): V

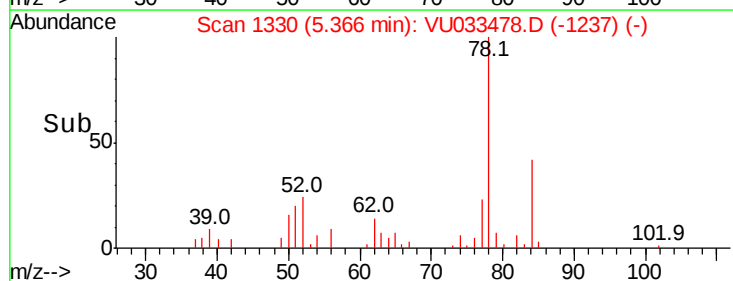
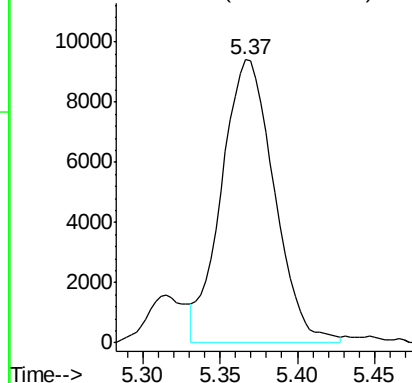


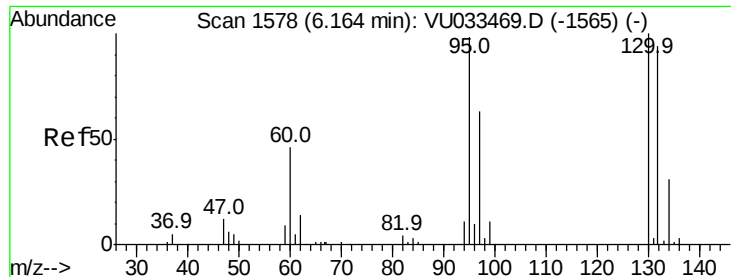
#33
Benzene
Concen: 2.526 ug/L
RT: 5.37 min Scan# 1330
Delta R.T. 0.00 min
Lab File: VU033478.D
Acq: 29 Jul 2019 19:15

Tgt Ion: 78 Resp: 22270



Abundance Ion 78.00 (77.70 to 78.70): VU0





#34

Trichloroethene

Concen: 2.533 ug/L

RT: 6.17 min Scan# 1580

Delta R.T. 0.01 min

Lab File: VU033478.D

Acq: 29 Jul 2019 19:15

Instrument :

MSVOA_U

ClientSampleId :

MDL02

Tot Ion: 95 Resp: 5817

Ion Ratio Lower Upper

95 100

97 66.6 45.4 84.2

132 100.7 67.1 124.5

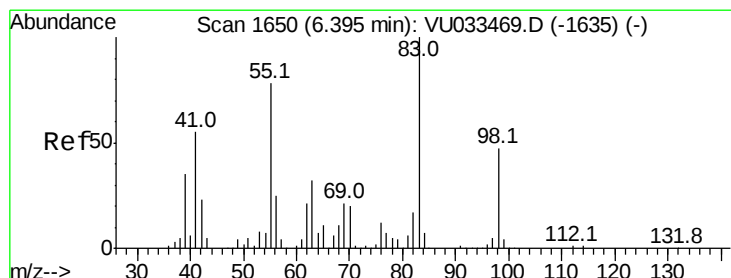
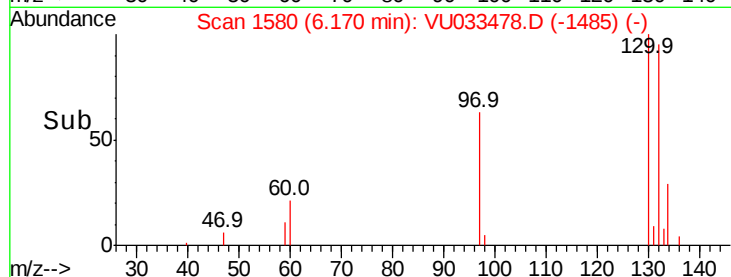
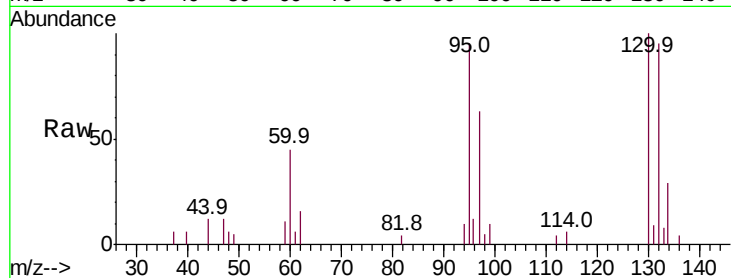
130 105.7 71.4 132.6

Manual Integrations

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#35

Methylcyclohexane

Concen: 2.295 ug/L

RT: 6.40 min Scan# 1650

Delta R.T. 0.00 min

Lab File: VU033478.D

Acq: 29 Jul 2019 19:15

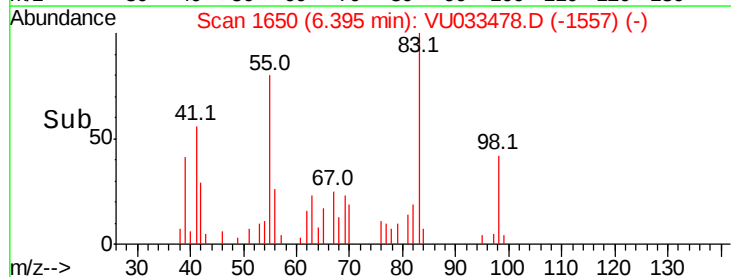
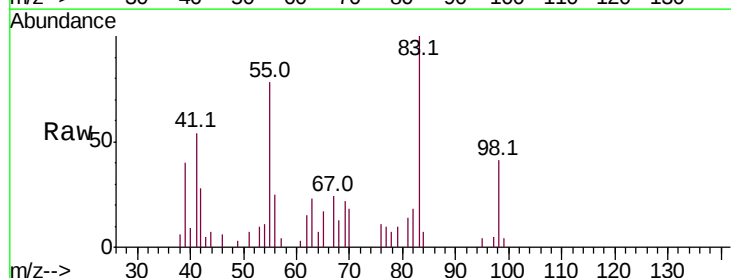
Tgt Ion: 83 Resp: 8015

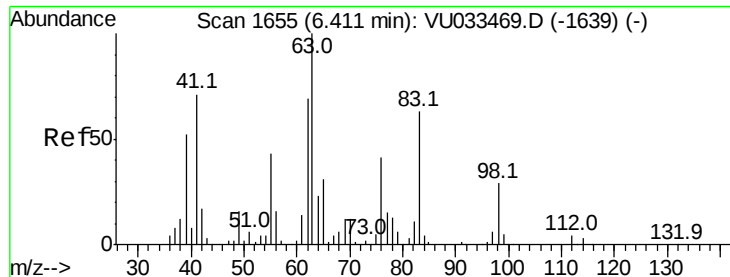
Ion Ratio Lower Upper

83 100

55 77.3 62.4 93.6

98 45.3 37.3 55.9





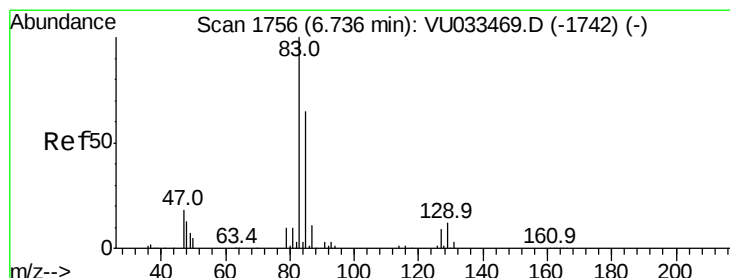
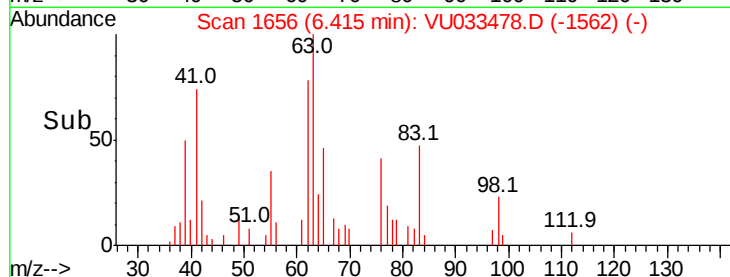
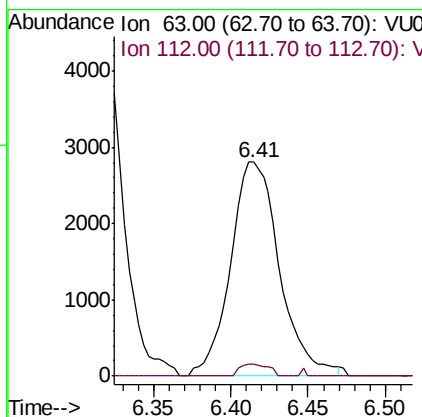
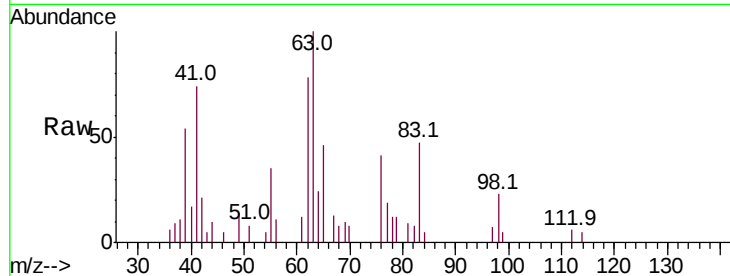
#37
 1,2-Dichloropropane
 Concen: 2.607 ug/L
 RT: 6.41 min Scan# 1656
 Delta R.T. 0.00 min
 Lab File: VU033478.D
 Acq: 29 Jul 2019 19:15

Instrument :
 MSVOA_U
 ClientSampled :
 MDL02

Tot Ion: 63 Resp: 6182
 Ion Ratio Lower Upper
 63 100
 112 3.3 3.1 4.7

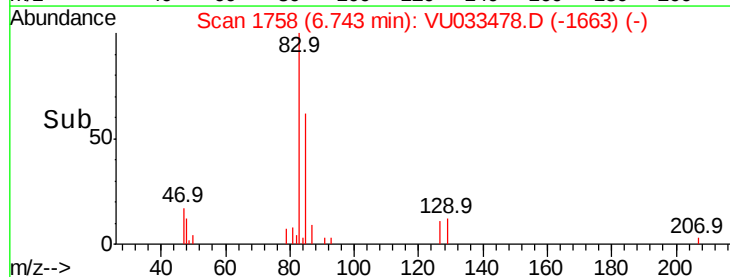
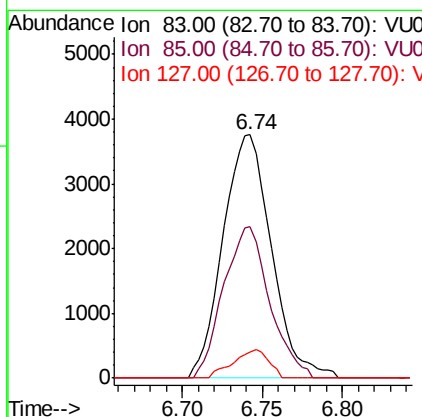
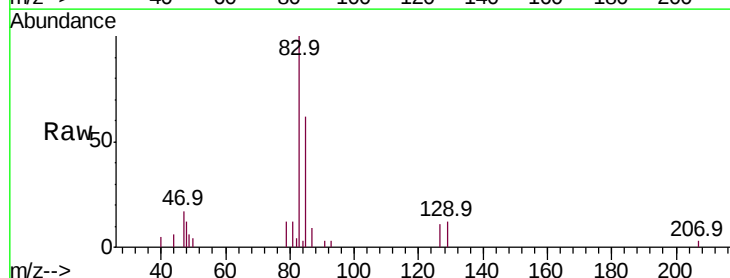
Manual Integrations
 APPROVED

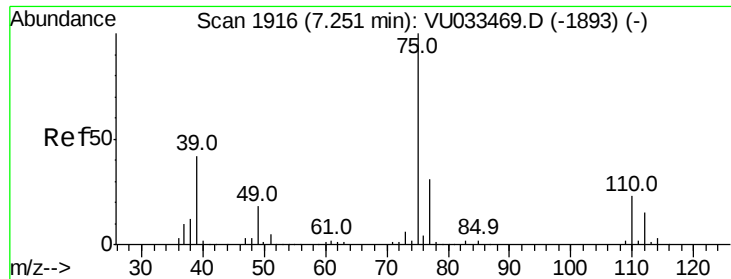
MMDadoda
 7/30/2019 3:01:13 PM



#38
 Bromodichloromethane
 Concen: 2.497 ug/L
 RT: 6.74 min Scan# 1758
 Delta R.T. 0.01 min
 Lab File: VU033478.D
 Acq: 29 Jul 2019 19:15

Tgt Ion: 83 Resp: 7793
 Ion Ratio Lower Upper
 83 100
 85 62.0 45.4 84.4
 127 10.9 7.3 10.9





#39

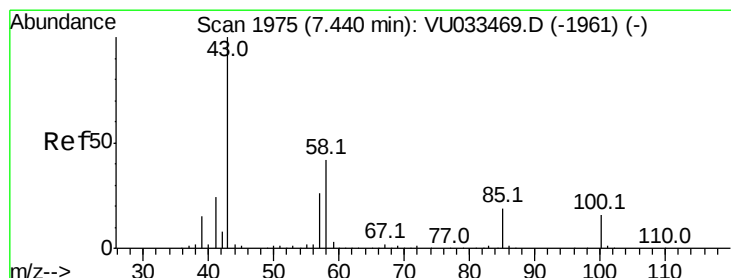
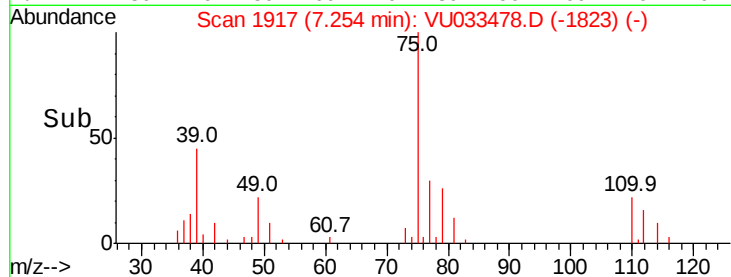
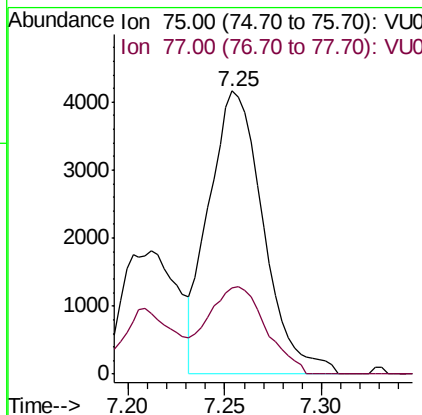
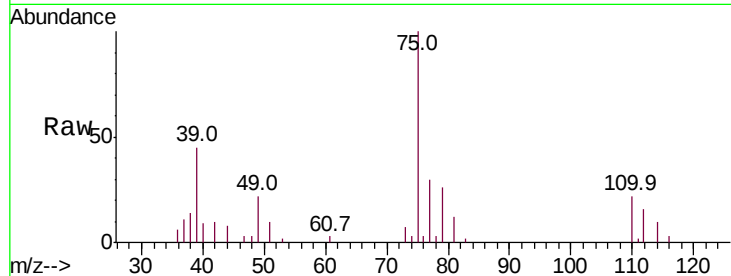
cis-1,3-Dichloropropene
 Concen: 2.305 ug/L
 RT: 7.25 min Scan# 1917
 Delta R.T. 0.00 min
 Lab File: VU033478.D
 Acq: 29 Jul 2019 19:15

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL02

Tot Ion: 75 Resp: 8148
 Ion Ratio Lower Upper
 75 100
 77 30.4 21.6 40.2

Manual Integrations
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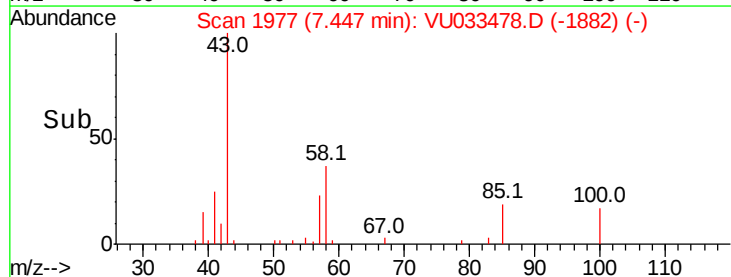
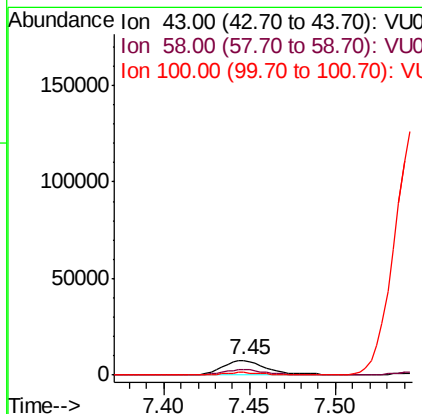
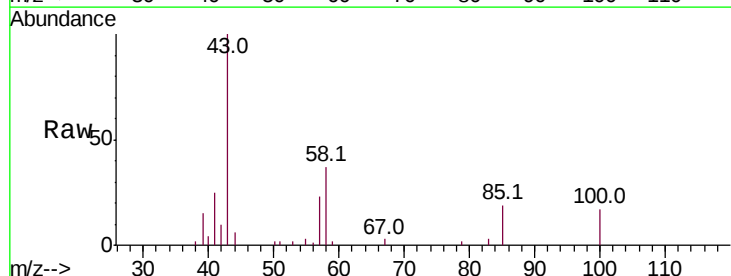
MMDadoda
 7/30/2019 3:01:13 PM

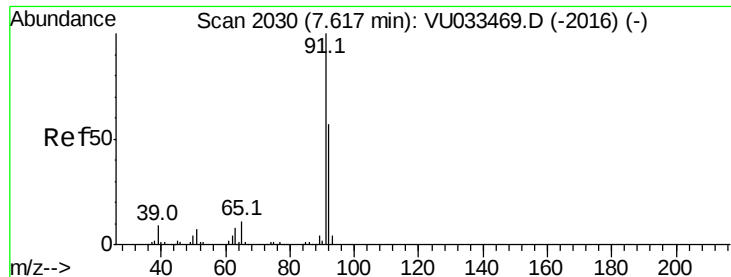


#40

4-Methyl-2-pentanone
 Concen: 4.448 ug/L
 RT: 7.45 min Scan# 1977
 Delta R.T. 0.01 min
 Lab File: VU033478.D
 Acq: 29 Jul 2019 19:15

Tgt Ion: 43 Resp: 13897
 Ion Ratio Lower Upper
 43 100
 58 37.4 33.4 50.2
 100 14.7 12.3 18.5





#42

Toluene

Concen: 2.450 ug/L

RT: 7.62 min Scan# 2031

Delta R.T. 0.00 min

Lab File: VU033478.D

Acq: 29 Jul 2019 19:15

Instrument :

MSVOA_U

ClientSampleId :

MDL02

Tot Ion: 91 Resp: 23246

Ion Ratio Lower Upper

91 100

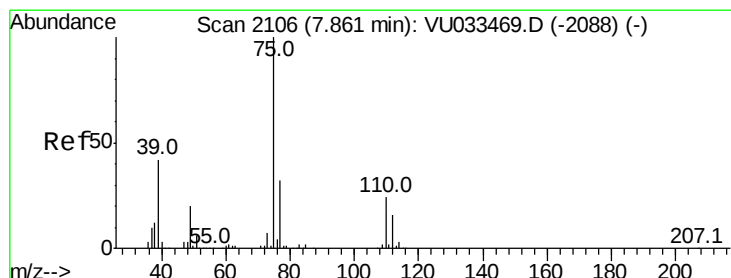
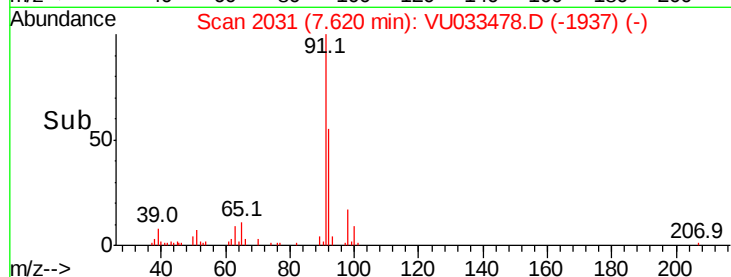
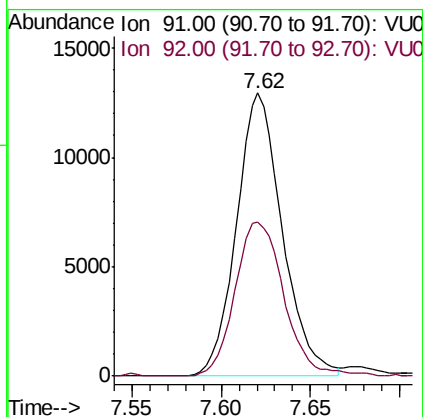
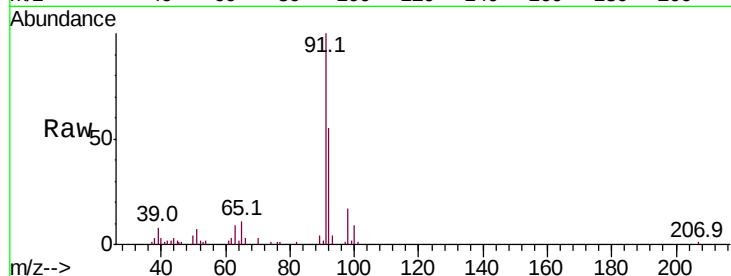
92 54.5 40.1 74.5

Manual Integrations

APPROVED

MMDadoda

7/30/2019 3:01:13 PM



#44

trans-1,3-Dichloropropene

Concen: 2.443 ug/L m

RT: 7.86 min Scan# 2107

Delta R.T. 0.00 min

Lab File: VU033478.D

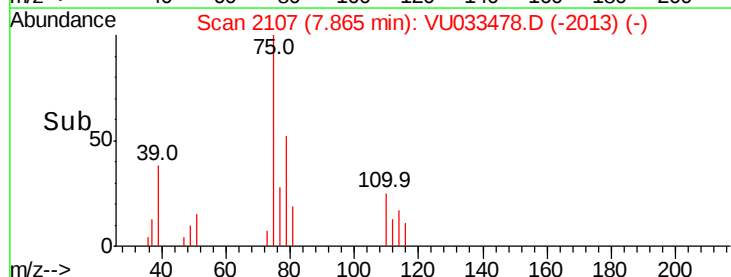
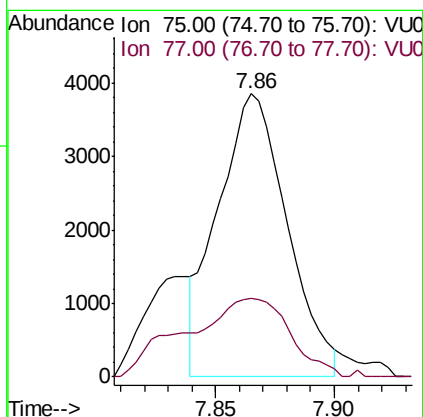
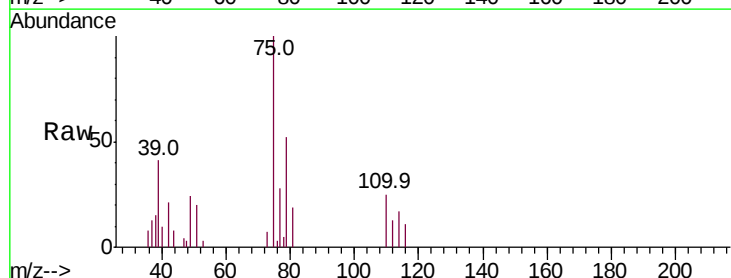
Acq: 29 Jul 2019 19:15

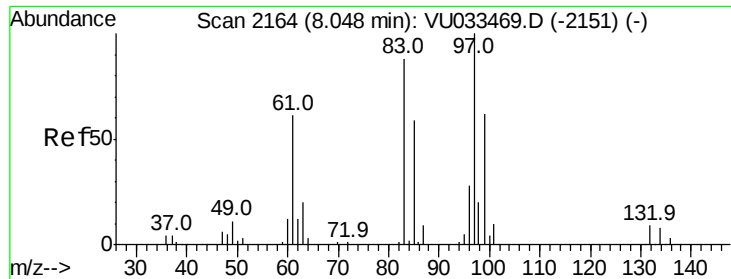
Tgt Ion: 75 Resp: 7839

Ion Ratio Lower Upper

75 100

77 27.6 22.3 41.5





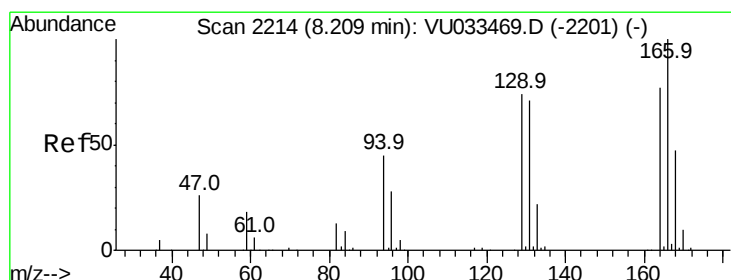
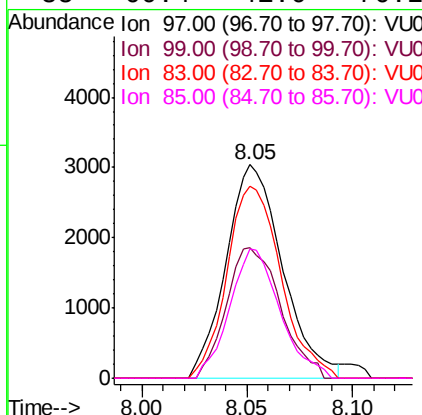
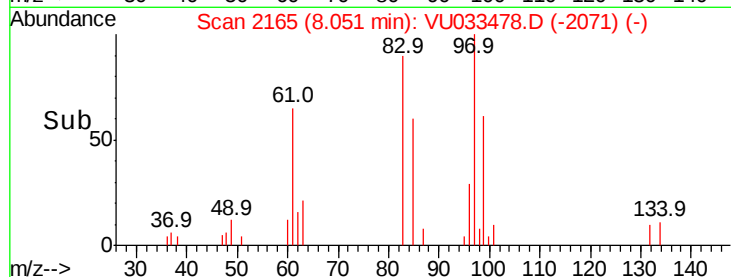
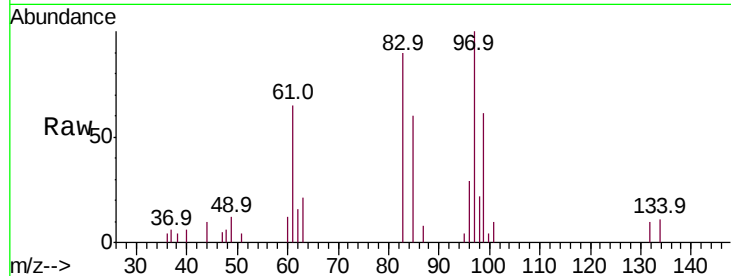
#45
1,1,2-Trichloroethane
Concen: 2.510 ug/L
RT: 8.05 min Scan# 2165
Delta R.T. 0.00 min
Lab File: VU033478.D
Acq: 29 Jul 2019 19:15

Instrument :
MSVOA_U
ClientSampleId :
MDL02

Tot Ion:	97	Resp:	5675
Ion	Ratio	Lower	Upper
97	100		
99	61.1	43.3	80.5
83	90.0	61.3	113.9
85	60.4	41.0	76.2

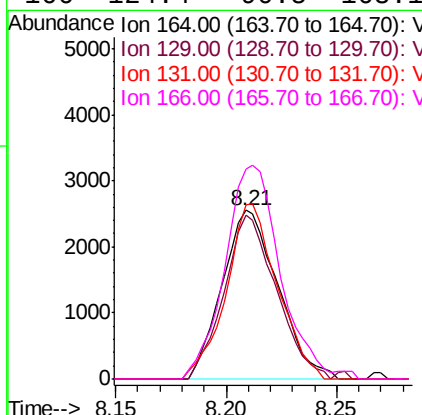
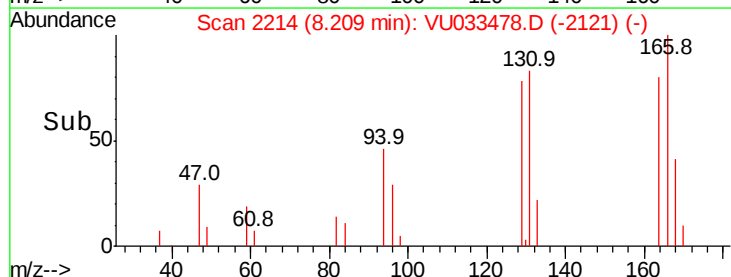
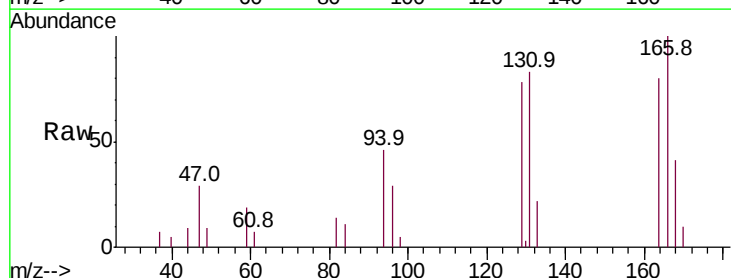
Manual Integrations
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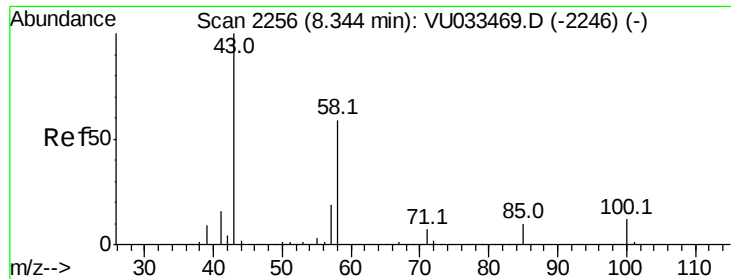
MMDadoda
7/30/2019 3:01:13 PM



#46
Tetrachloroethene
Concen: 2.398 ug/L
RT: 8.21 min Scan# 2214
Delta R.T. 0.00 min
Lab File: VU033478.D
Acq: 29 Jul 2019 19:15

Tgt Ion:	164	Resp:	4483
Ion	Ratio	Lower	Upper
164	100		
129	96.8	66.6	123.8
131	102.8	63.9	118.7
166	124.4	90.5	168.1





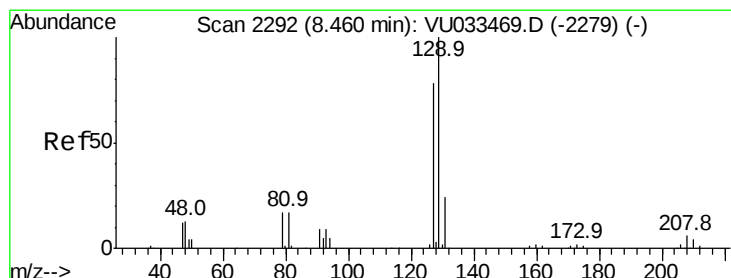
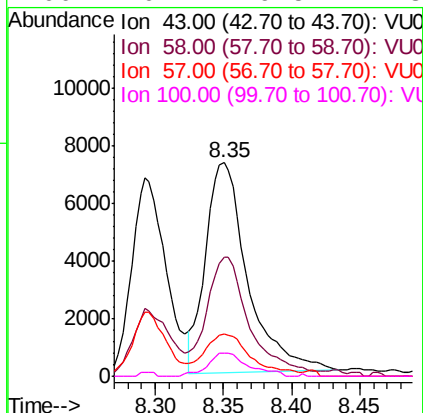
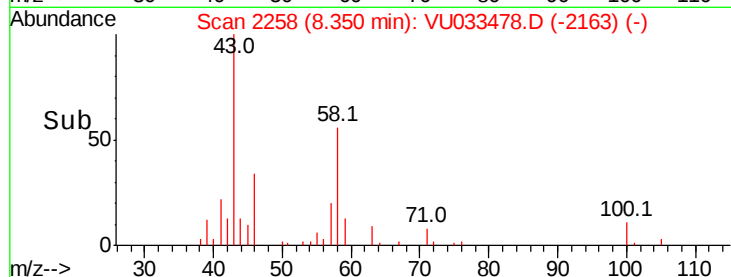
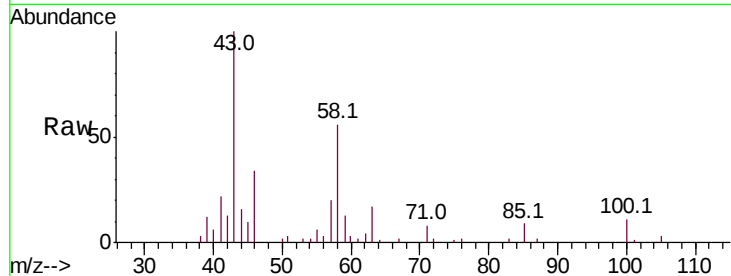
#48
2-Hexanone
Concen: 6.154 ug/L
RT: 8.35 min Scan# 2258
Delta R.T. 0.01 min
Lab File: VU033478.D
Acq: 29 Jul 2019 19:15

Instrument :
MSVOA_U
ClientSampled :
MDL02

Tot Ion	Ratio	Lower	Upper
43	100		
58	58.5	46.6	69.8
57	22.3	16.0	24.0
100	10.2	9.5	14.3

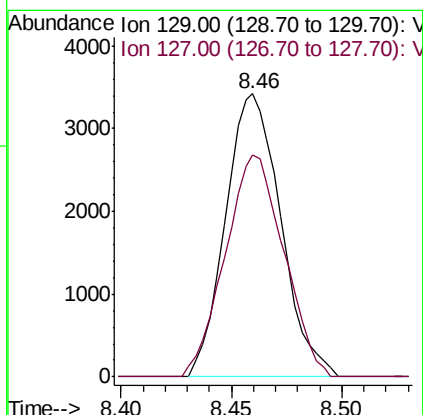
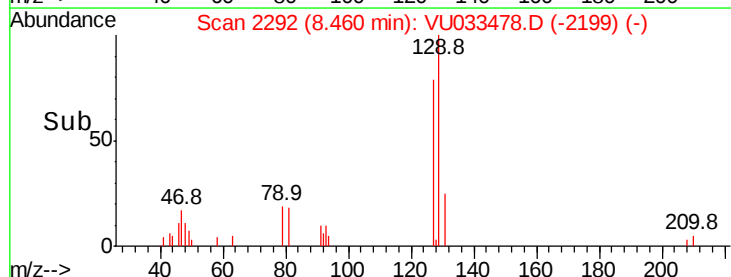
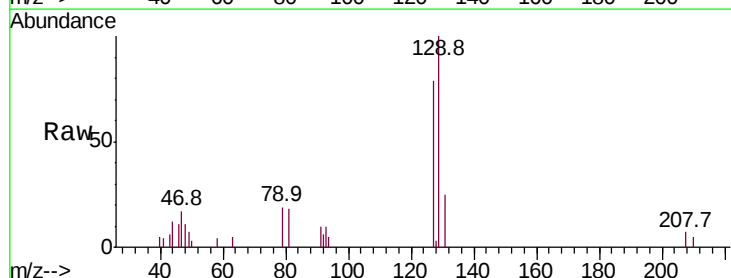
Manual Integrations
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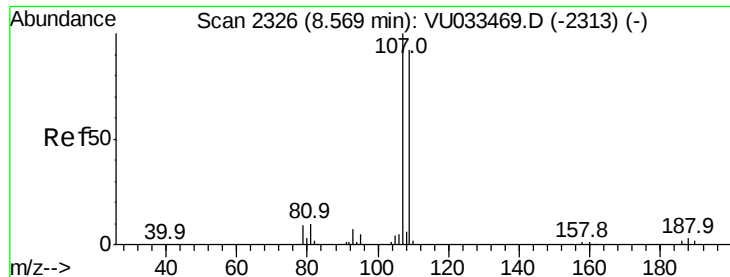
MMDadoda
7/30/2019 3:01:13 PM



#49
Dibromochloromethane
Concen: 2.350 ug/L
RT: 8.46 min Scan# 2292
Delta R.T. 0.00 min
Lab File: VU033478.D
Acq: 29 Jul 2019 19:15

Tgt Ion	Ratio	Lower	Upper
129	100		
127	78.5	54.5	101.1





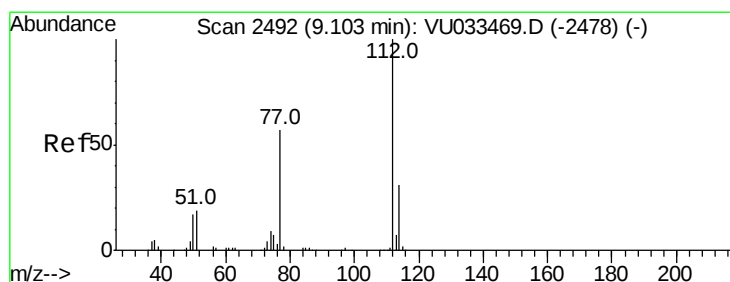
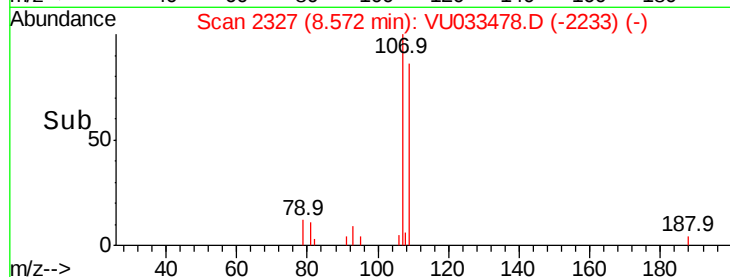
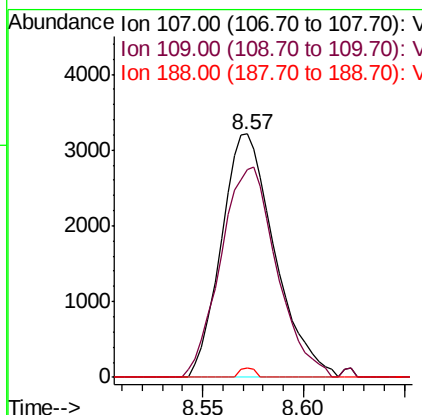
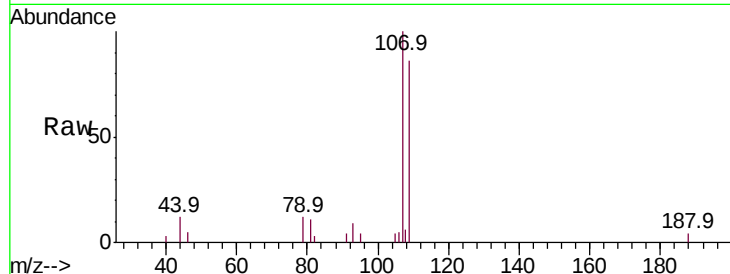
#50
1,2-Dibromoethane
Concen: 2.420 ug/L
RT: 8.57 min Scan# 2327
Delta R.T. 0.00 min
Lab File: VU033478.D
Acq: 29 Jul 2019 19:15

Instrument :
MSVOA_U
ClientSampleId :
MDL02

Tot Ion	Ratio	Lower	Upper
107	100		
109	85.5	64.7	120.1
188	3.6	2.8	4.2

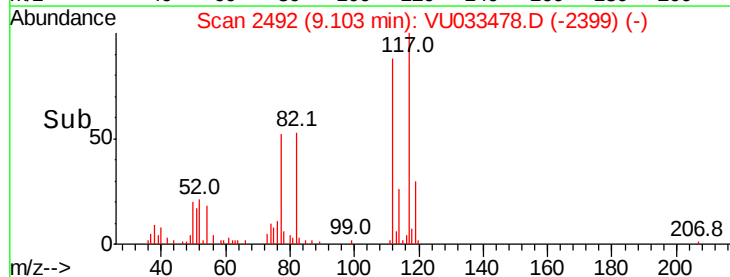
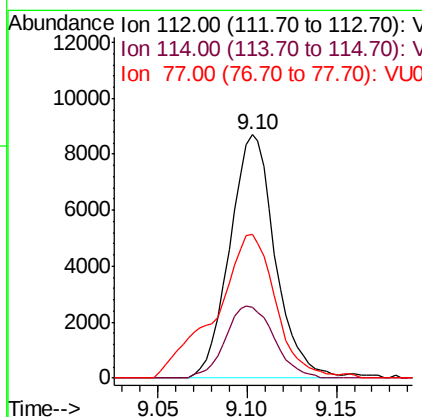
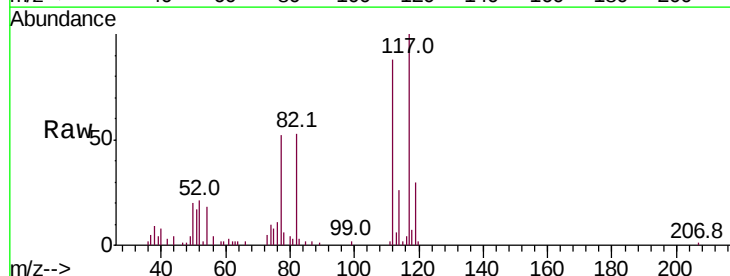
Manual Integrations
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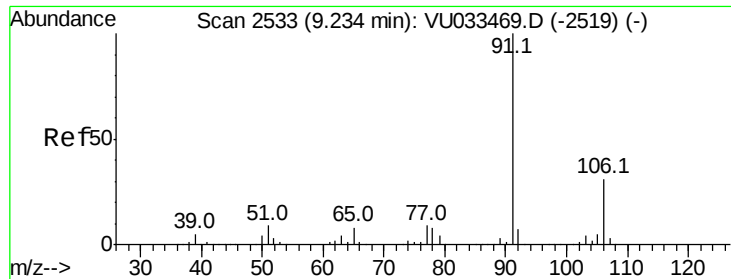
MMDadoda
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#51
Chlorobenzene
Concen: 2.446 ug/L
RT: 9.10 min Scan# 2492
Delta R.T. 0.00 min
Lab File: VU033478.D
Acq: 29 Jul 2019 19:15

Tgt Ion	Ratio	Lower	Upper
112	100		
114	29.0	21.9	40.7
77	58.8	46.1	69.1





#52

Ethylbenzene

Concen: 2.186 ug/L

RT: 9.23 min Scan# 2533

Delta R.T. 0.00 min

Lab File: VU033478.D

Acq: 29 Jul 2019 19:15

Instrument :

MSVOA_U

ClientSampleId :

MDL02

Tot Ion: 91 Resp: 22480

Ion Ratio Lower Upper

91 100

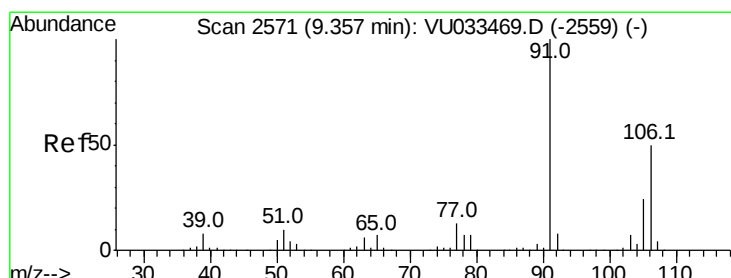
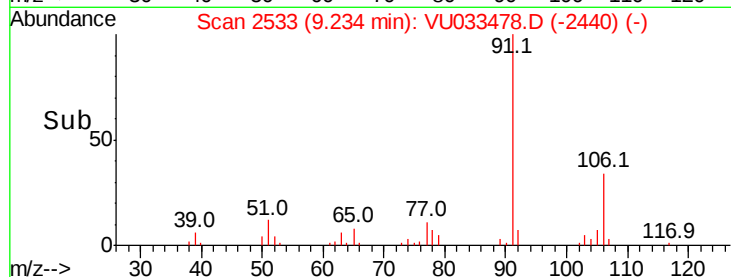
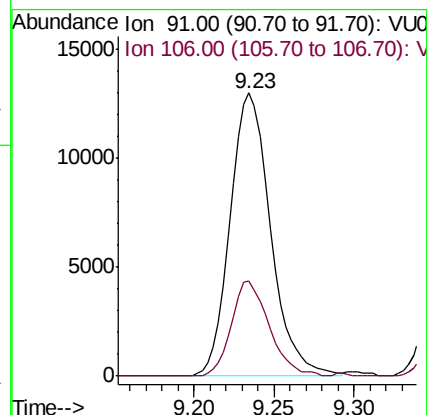
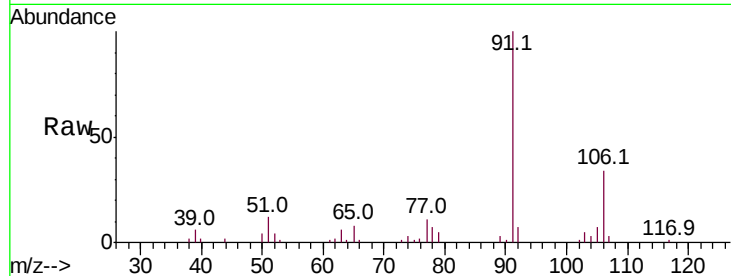
106 33.6 21.6 40.2

Manual Integrations

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7/30/2019 3:01:13 PM



#53

m,p-Xylene

Concen: 2.062 ug/L

RT: 9.36 min Scan# 2572

Delta R.T. 0.00 min

Lab File: VU033478.D

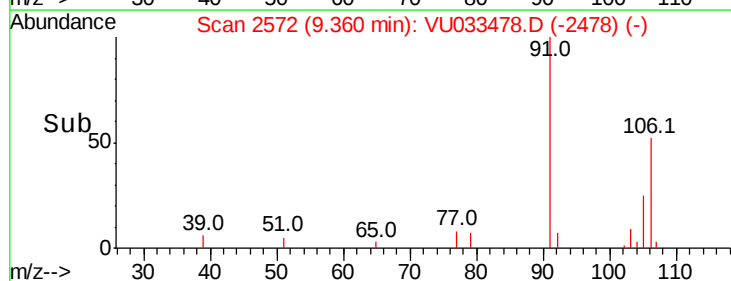
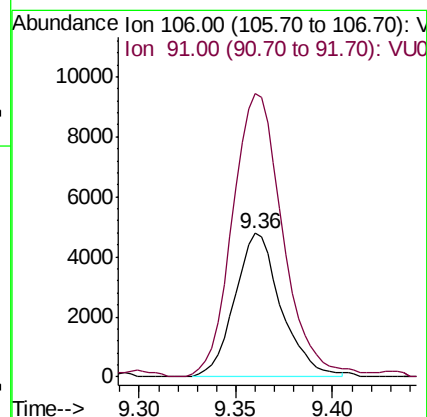
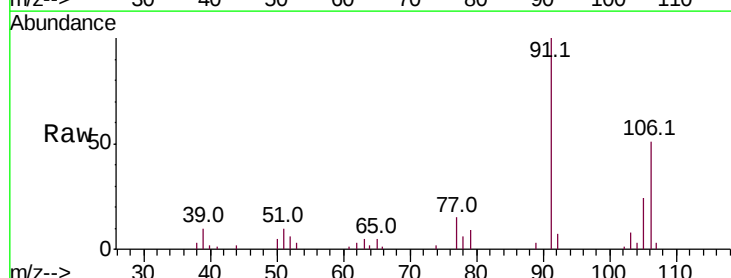
Acq: 29 Jul 2019 19:15

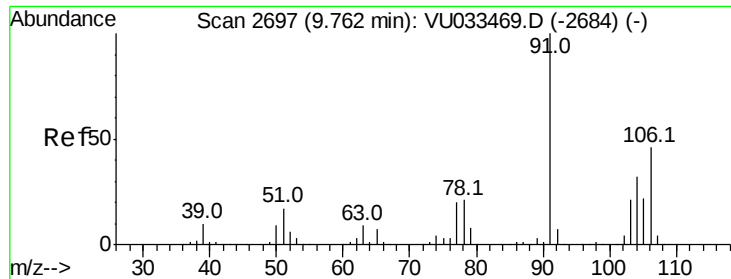
Tgt Ion: 106 Resp: 7974

Ion Ratio Lower Upper

106 100

91 197.1 140.7 261.3





#54

o-xylene

Concen: 1.985 ug/L

RT: 9.76 min Scan# 2697

Delta R.T. 0.00 min

Lab File: VU033478.D

Acq: 29 Jul 2019 19:15

Instrument :

MSVOA_U

ClientSampleId :

MDL02

Tot Ion:106 Resp: 7527

Ion Ratio Lower Upper

106 100

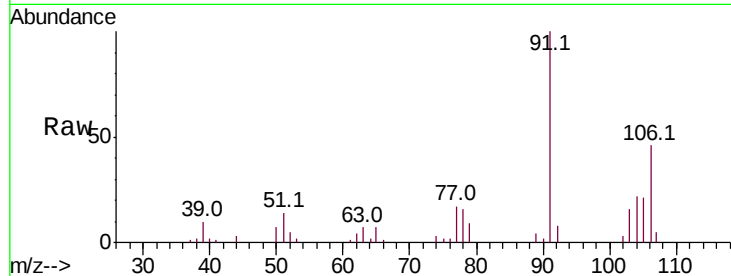
91 219.0 151.1 280.7

Manual Integrations

APPROVED

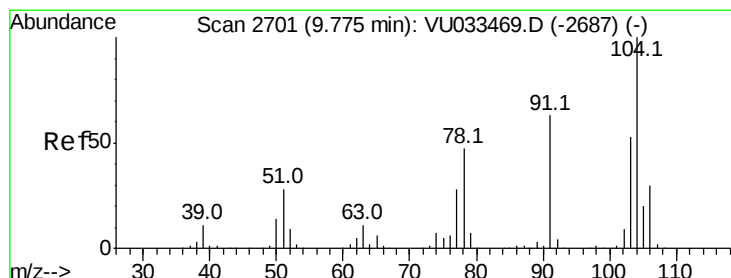
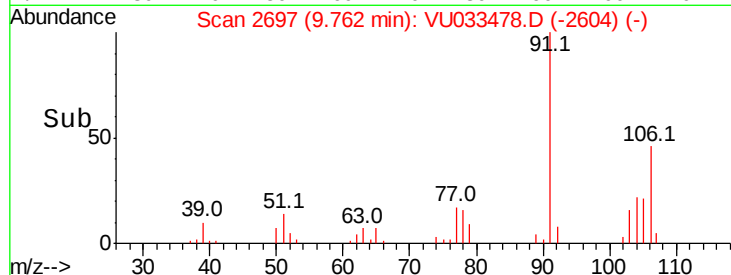
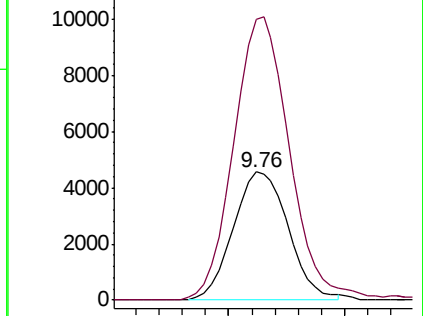
MMDadoda

7/30/2019 3:01:13 PM



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 1.881 ug/L

RT: 9.78 min Scan# 2702

Delta R.T. 0.00 min

Lab File: VU033478.D

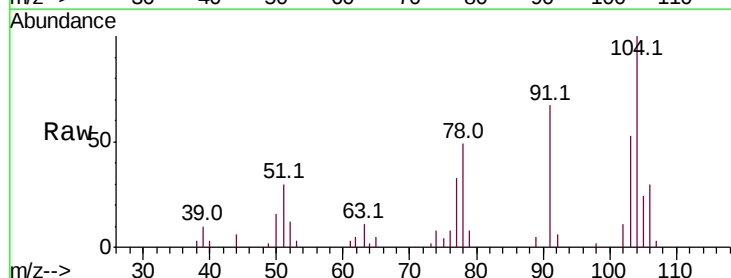
Acq: 29 Jul 2019 19:15

Tgt Ion:104 Resp: 12101

Ion Ratio Lower Upper

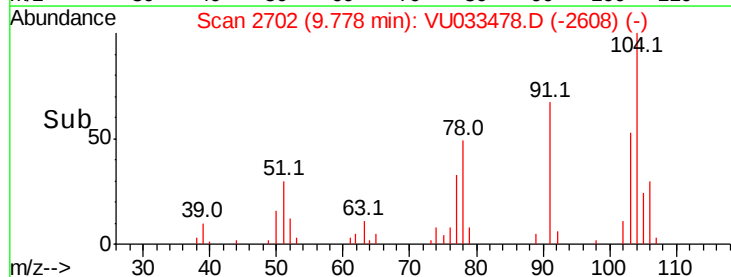
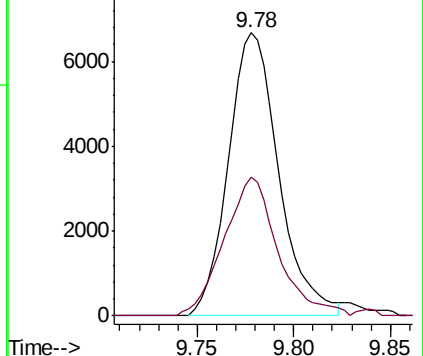
104 100

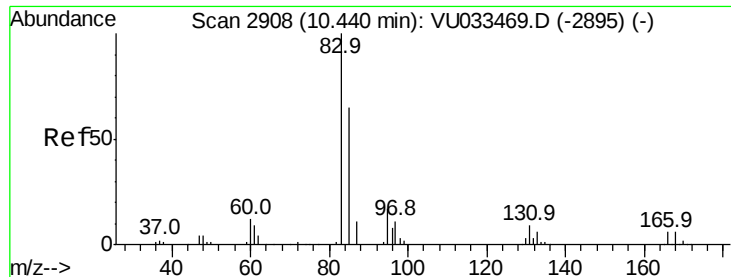
78 49.1 32.6 60.5



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#57

1,1,2,2-Tetrachloroethane

Concen: 2.750 ug/L

RT: 10.44 min Scan# 2908

Delta R.T. 0.00 min

Lab File: VU033478.D

Acq: 29 Jul 2019 19:15

Instrument :

MSVOA_U

ClientSampleId :

MDL02

Tot Ion: 83 Resp: 11057
Ion Ratio Lower Upper

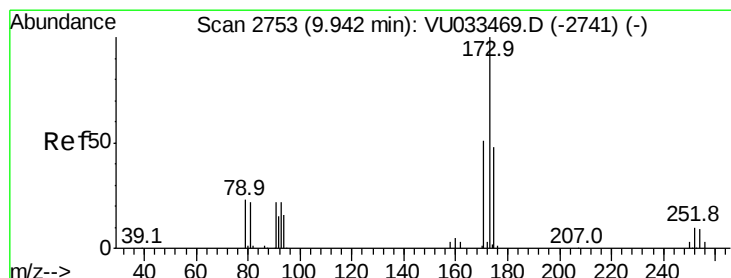
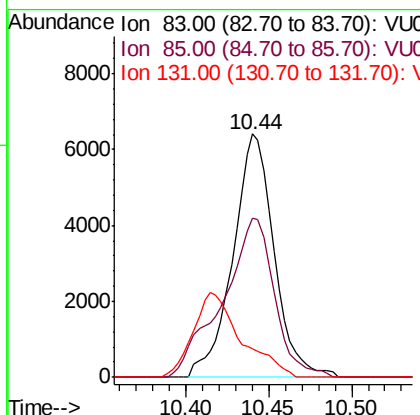
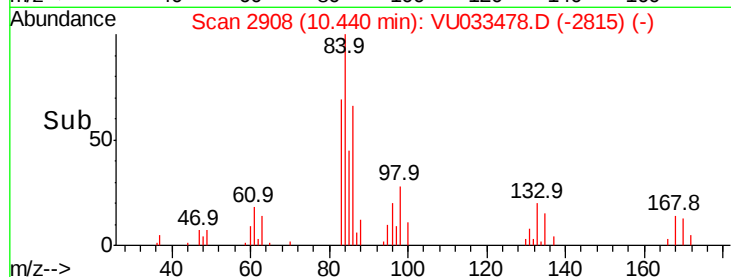
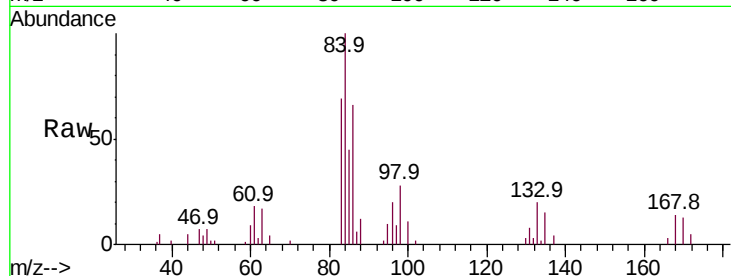
83 100

85 65.2 45.9 85.3

131 11.8 7.8 11.8#

Manual Integrations
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#59

Bromoform

Concen: 2.456 ug/L

RT: 9.94 min Scan# 2753

Delta R.T. 0.00 min

Lab File: VU033478.D

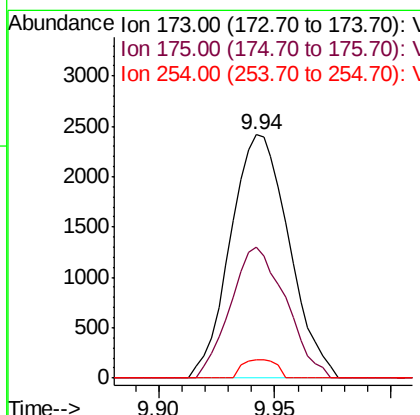
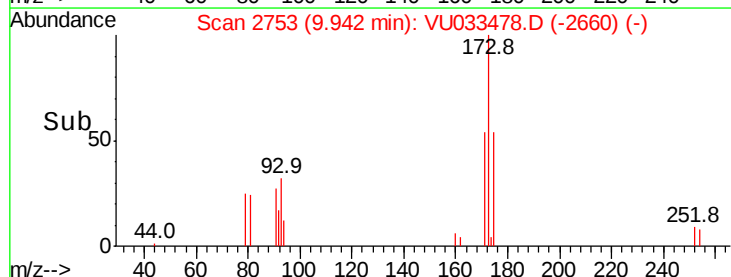
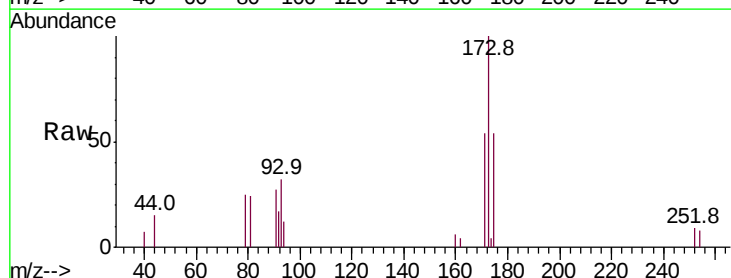
Acq: 29 Jul 2019 19:15

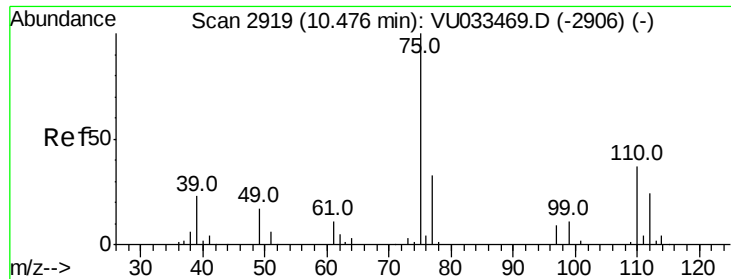
Tgt Ion: 173 Resp: 4223
Ion Ratio Lower Upper

173 100

175 51.2 38.1 57.1

254 4.4 7.3 10.9#





#60

1,2,3-Trichloropropane

Concen: 2.697 ug/L

RT: 10.48 min Scan# 2919

Delta R.T. 0.00 min

Lab File: VU033478.D

Acq: 29 Jul 2019 19:15

Instrument :

MSVOA_U

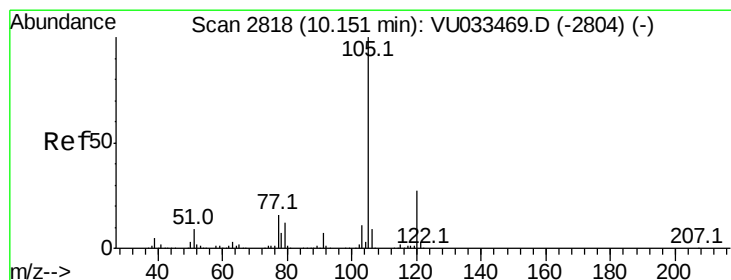
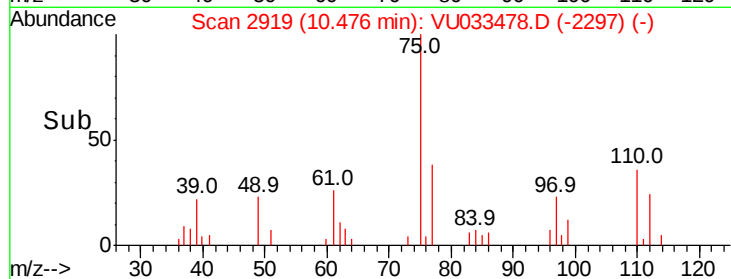
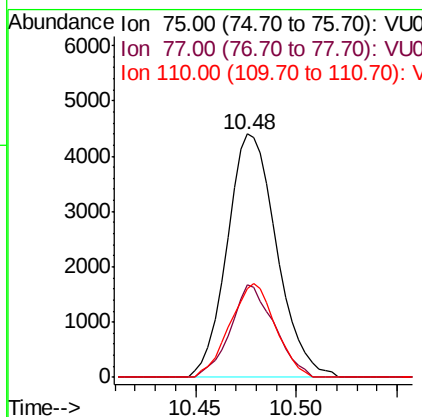
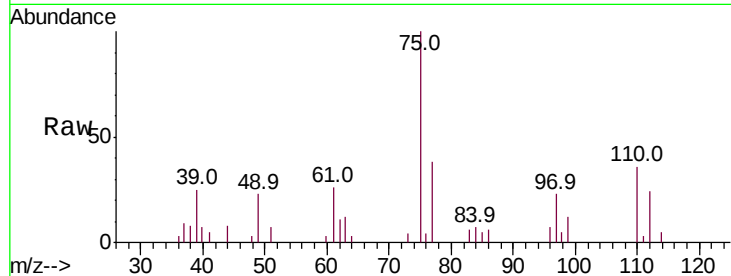
ClientSampled :

MDL02

Tot Ion:	75	Resp:	7551
Ion Ratio	Lower	Upper	
75	100		
77	33.8	25.9	38.9
110	35.5	30.2	45.4

Manual Integrations
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#61

Isopropylbenzene

Concen: 2.157 ug/L

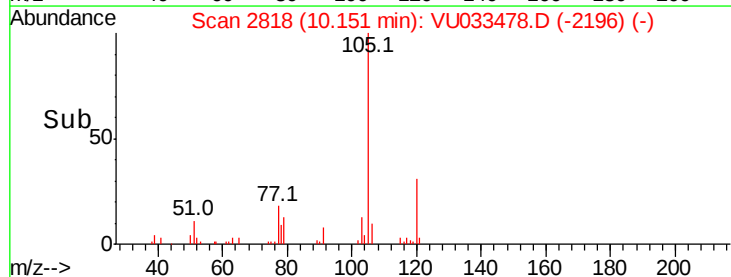
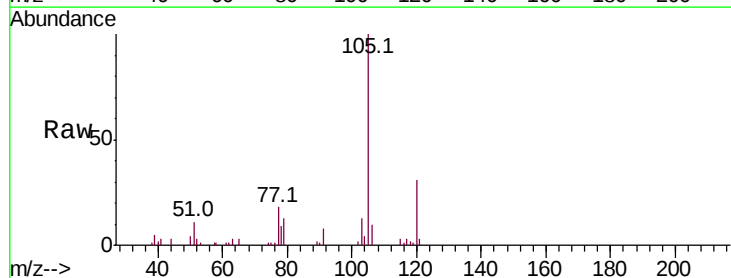
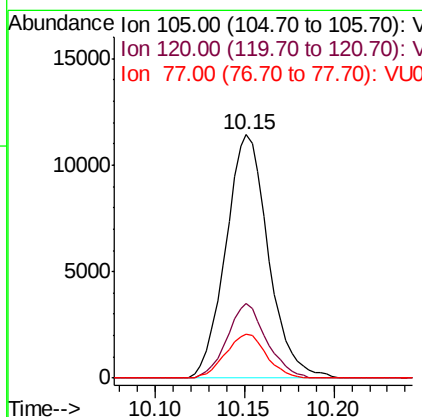
RT: 10.15 min Scan# 2818

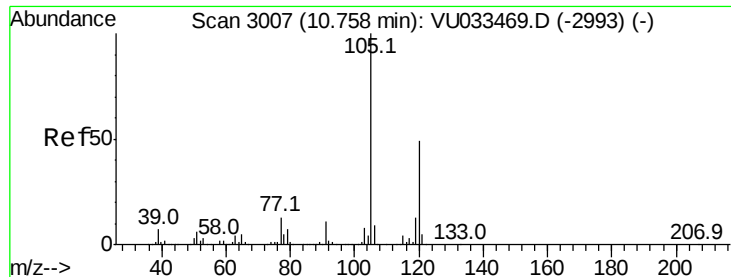
Delta R.T. 0.00 min

Lab File: VU033478.D

Acq: 29 Jul 2019 19:15

Tgt Ion:	105	Resp:	18985
Ion Ratio	Lower	Upper	
105	100		
120	28.2	21.7	32.5
77	17.2	12.6	19.0





#62

1,3,5-Trimethylbenzene

Concen: 2.019 ug/L

RT: 10.76 min Scan# 3007

Delta R.T. 0.00 min

Lab File: VU033478.D

Acq: 29 Jul 2019 19:15

Instrument :

MSVOA_U

ClientSampled :

MDL02

Tot Ion:105 Resp: 14404

Ion Ratio Lower Upper

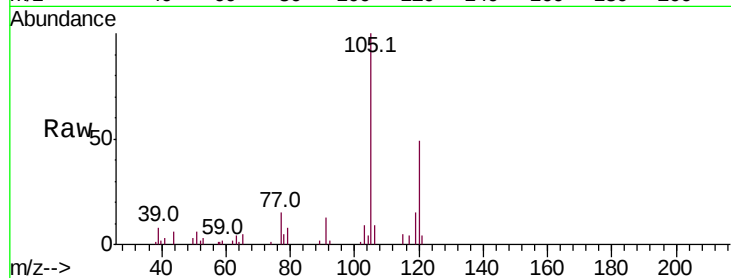
105 100

120 48.9 39.0 58.6

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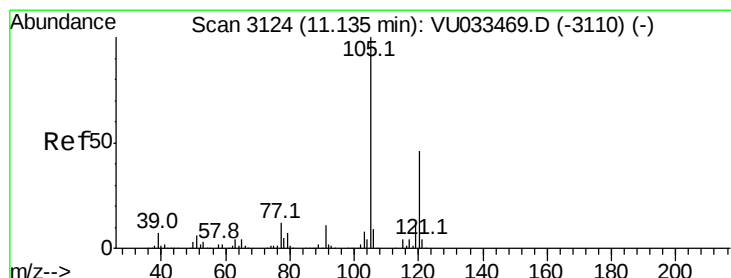
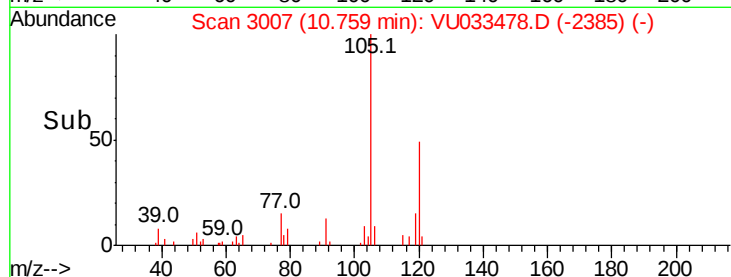
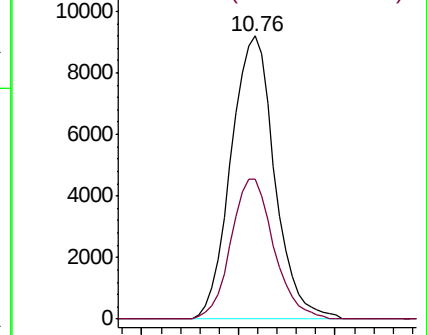
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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#63

1,2,4-Trimethylbenzene

Concen: 1.943 ug/L

RT: 11.13 min Scan# 3124

Delta R.T. 0.00 min

Lab File: VU033478.D

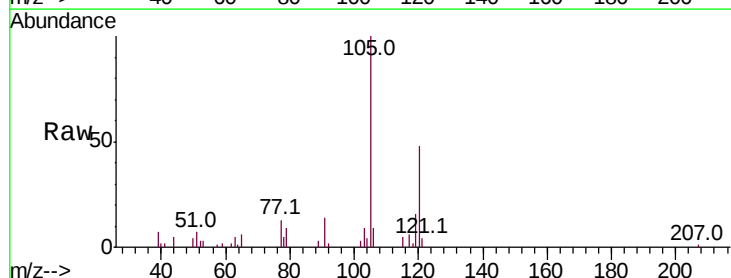
Acq: 29 Jul 2019 19:15

Tgt Ion:105 Resp: 13748

Ion Ratio Lower Upper

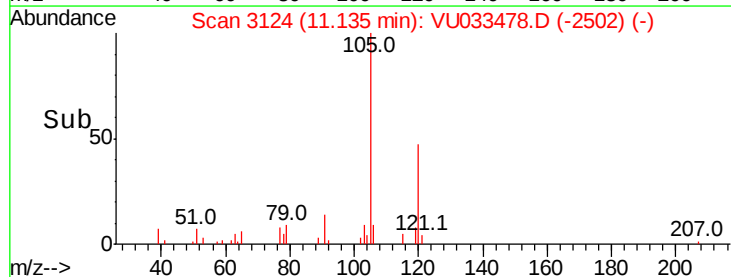
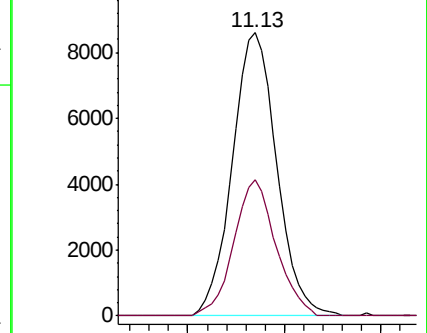
105 100

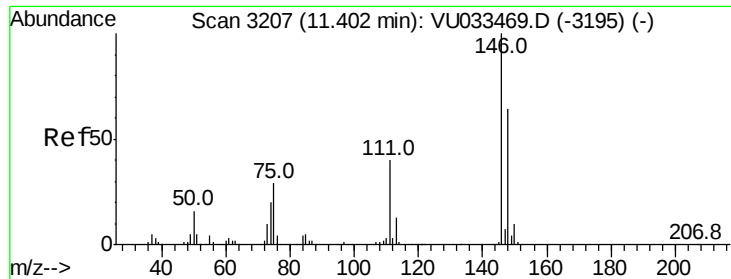
120 45.5 36.6 55.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#64

1,3-Dichlorobenzene

Concen: 2.512 ug/L

RT: 11.40 min Scan# 3207

Delta R.T. 0.00 min

Lab File: VU033478.D

Acq: 29 Jul 2019 19:15

Instrument :

MSVOA_U

ClientSampleId :

MDL02

Tot Ion:146 Resp: 11272

Ion Ratio Lower Upper

146 100

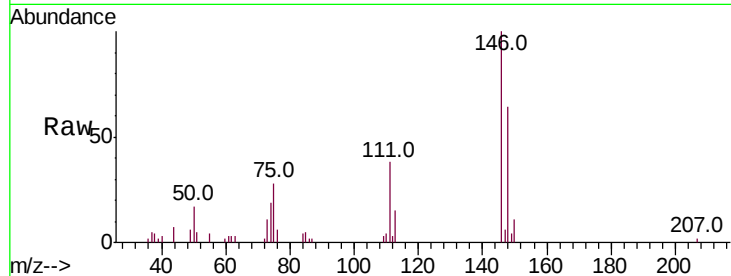
111 38.1 28.2 52.4

148 63.5 44.4 82.5

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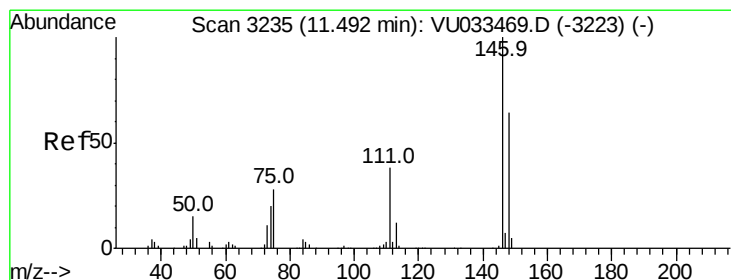
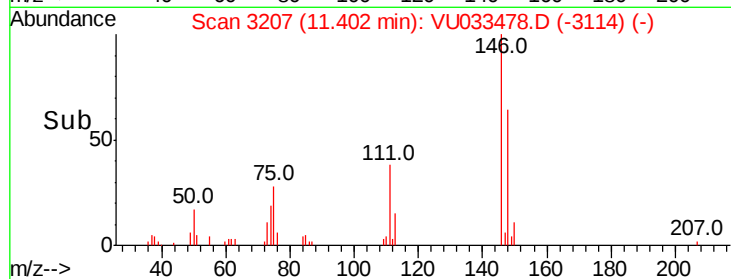
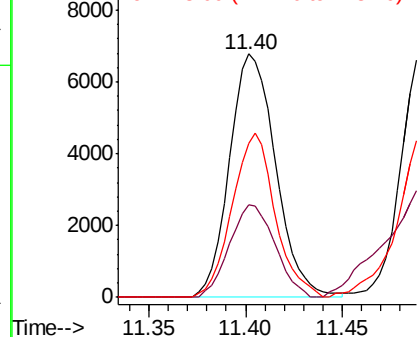
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Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#65

1,4-Dichlorobenzene

Concen: 2.464 ug/L

RT: 11.49 min Scan# 3235

Delta R.T. 0.00 min

Lab File: VU033478.D

Acq: 29 Jul 2019 19:15

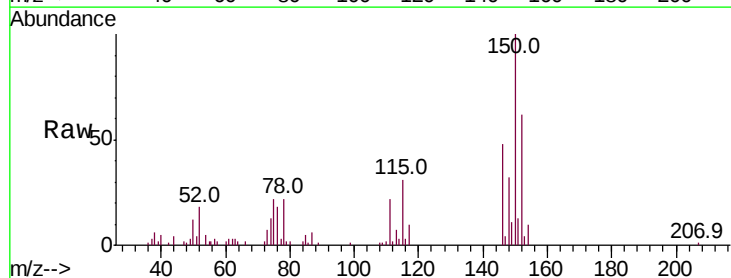
Tgt Ion:146 Resp: 11420

Ion Ratio Lower Upper

146 100

111 44.7 27.0 50.2

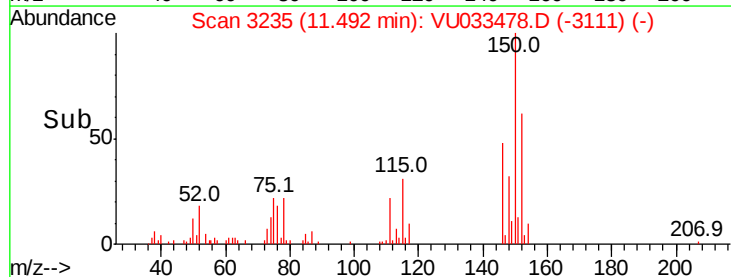
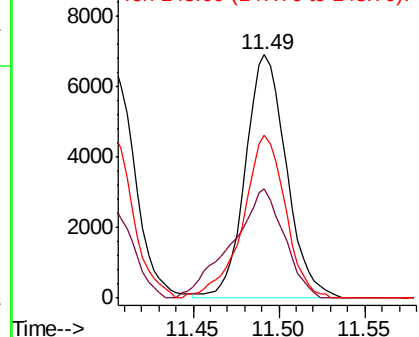
148 66.7 44.7 82.9

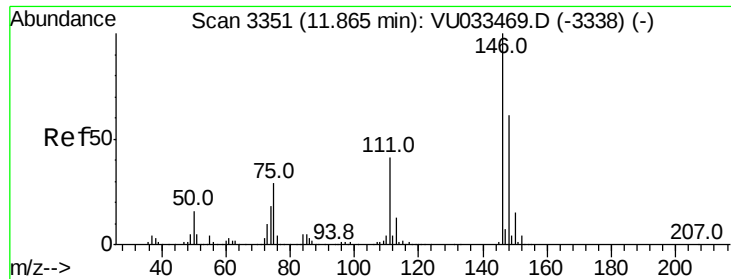


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





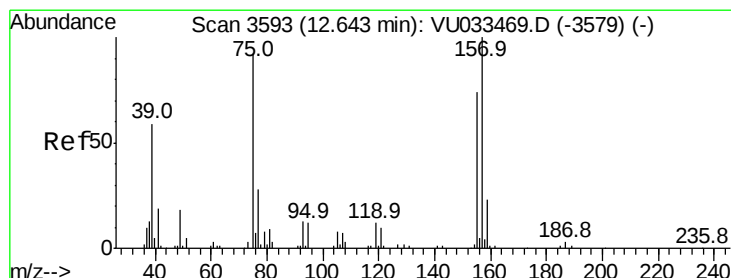
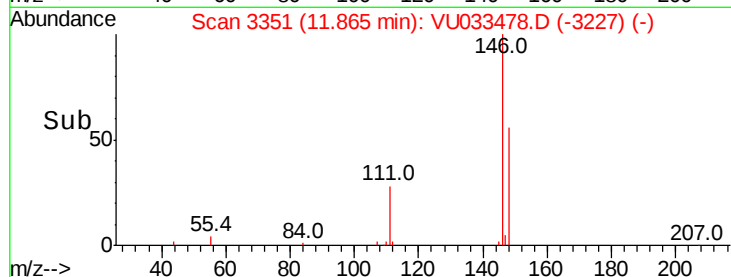
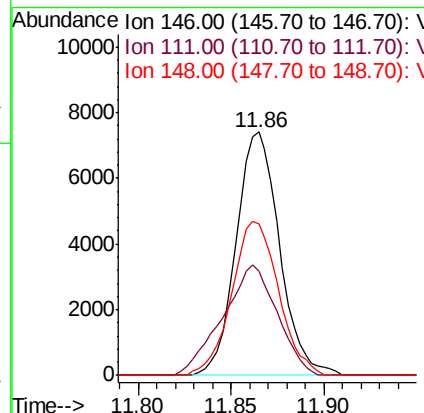
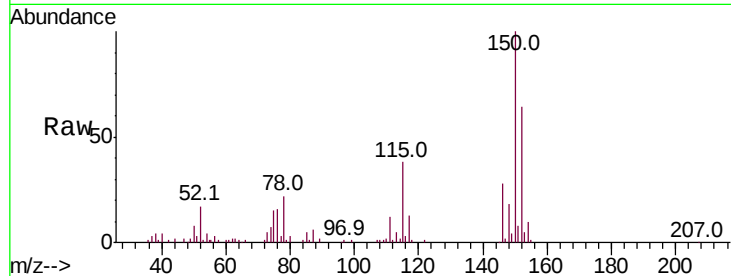
#67
 1,2-Dichlorobenzene
 Concen: 2.683 ug/L
 RT: 11.86 min Scan# 3351
 Delta R.T. 0.00 min
 Lab File: VU033478.D
 Acq: 29 Jul 2019 19:15

Instrument :
 MSVOA_U
 ClientSampled :
 MDL02

Tot Ion	Ratio	Lower	Upper
146	100		
111	42.9	32.8	49.2
148	62.2	49.2	73.8

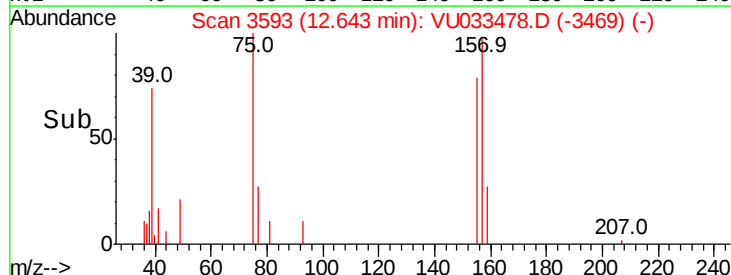
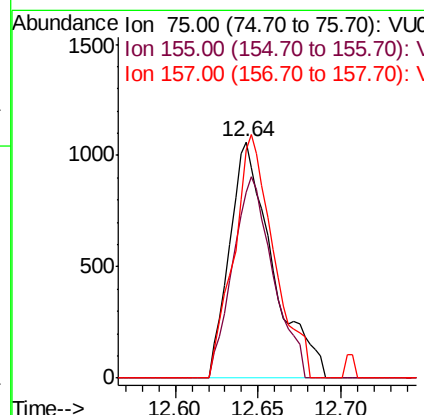
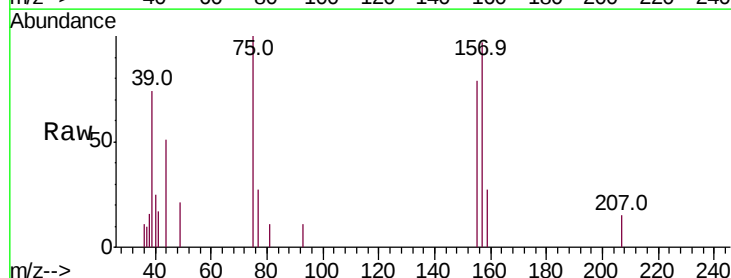
Manual Integrations
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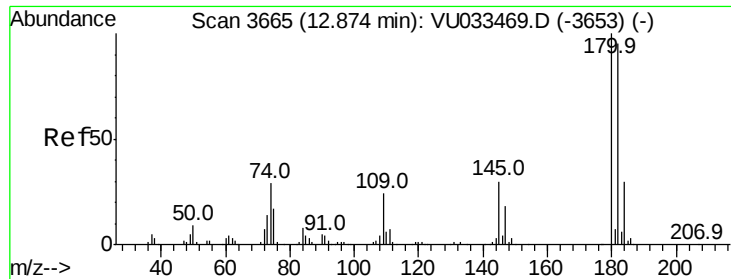
MMDadoda
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#68
 1,2-Dibromo-3-chloropropane
 Concen: 2.456 ug/L
 RT: 12.64 min Scan# 3593
 Delta R.T. 0.00 min
 Lab File: VU033478.D
 Acq: 29 Jul 2019 19:15

Tgt Ion	Ratio	Lower	Upper
75	100		
155	78.7	64.8	97.2
157	96.5	87.1	130.7





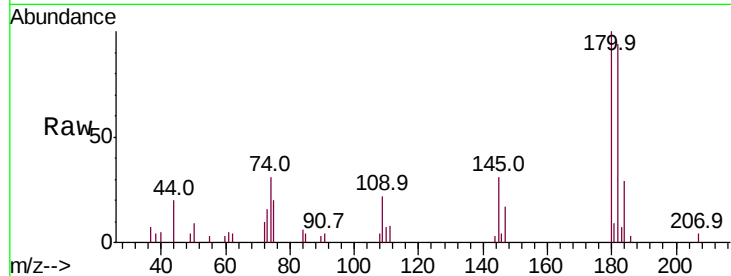
#69
 1,3,5-Trichlorobenzene
 Concen: 2.210 ug/L
 RT: 12.88 min Scan# 3666
 Delta R.T. 0.00 min
 Lab File: VU033478.D
 Acq: 29 Jul 2019 19:15

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL02

Tot Ion	Ratio	Lower	Upper
180	100		
182	93.0	76.2	114.4
184	25.4	24.1	36.1
145	27.5	23.7	35.5

Manual Integrations
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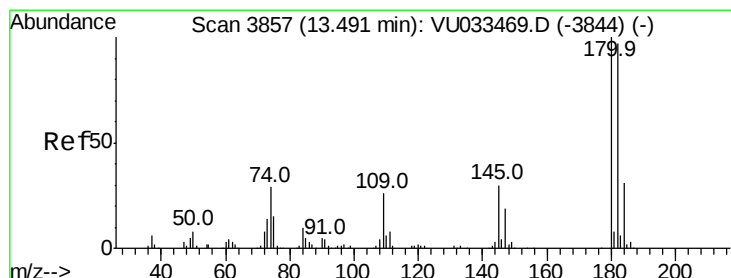
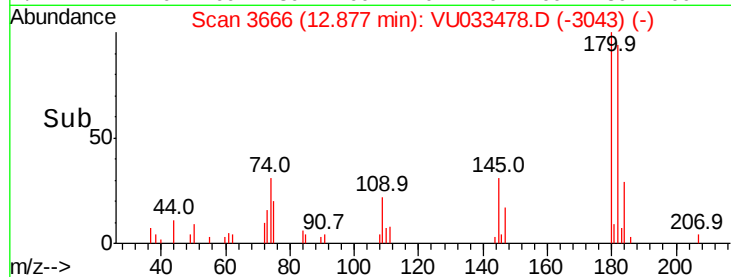
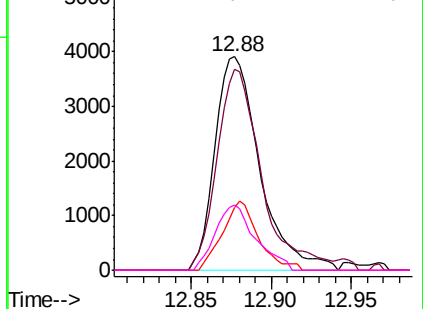
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#70
 1,2,4-trichlorobenzene
 Concen: 1.652 ug/L
 RT: 13.50 min Scan# 3859
 Delta R.T. 0.01 min
 Lab File: VU033478.D
 Acq: 29 Jul 2019 19:15

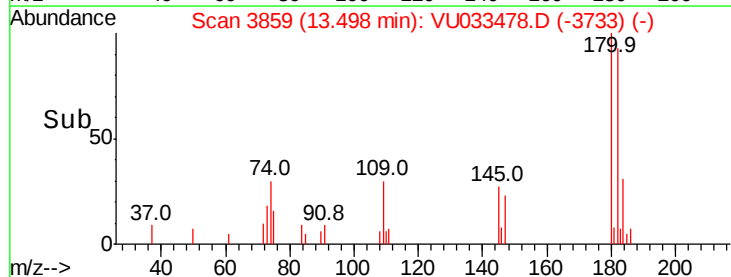
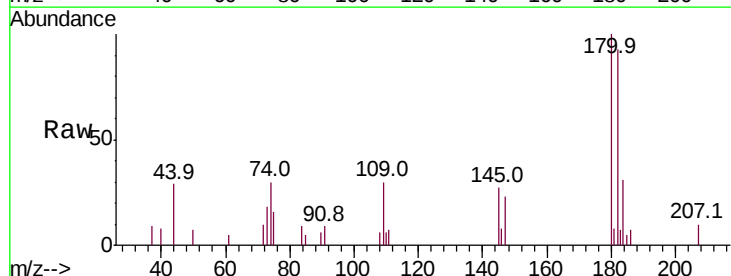
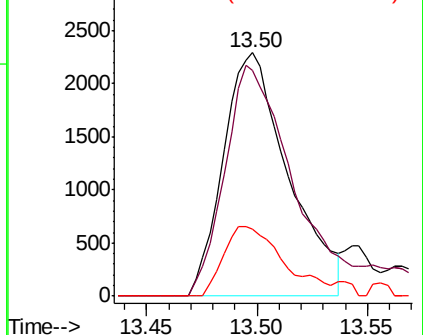
Tgt Ion	Ratio	Lower	Upper
180	100		
182	98.1	77.5	116.3
145	23.9	23.9	35.9

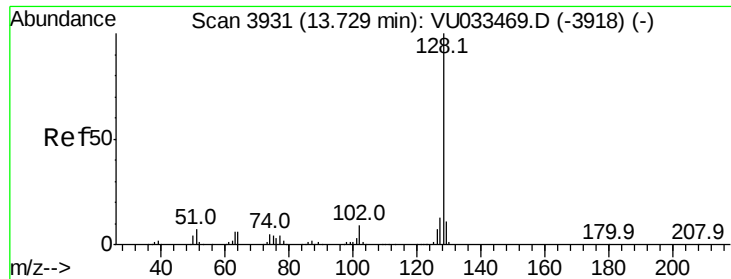
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





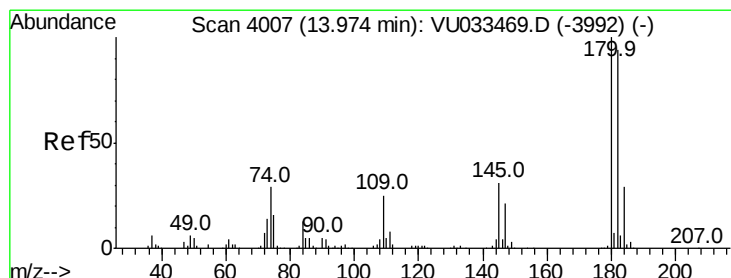
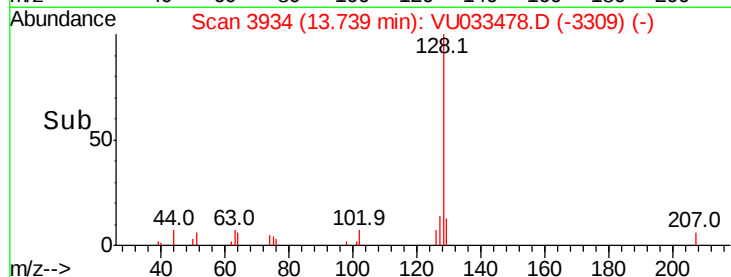
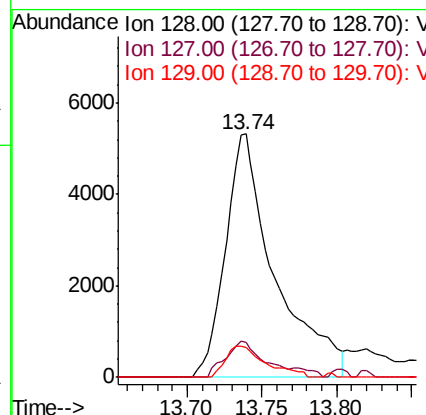
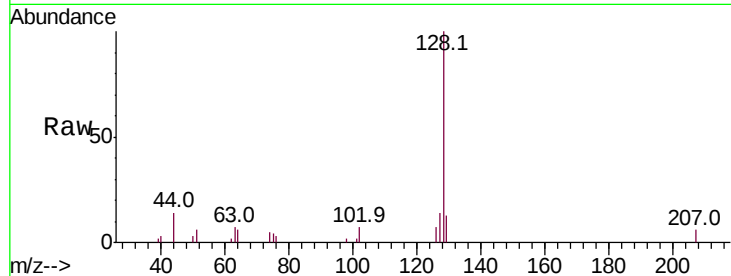
#71
Naphthalene
Concen: 1.484 ug/L
RT: 13.74 min Scan# 3934
Delta R.T. 0.01 min
Lab File: VU033478.D
Acq: 29 Jul 2019 19:15

Instrument :
MSVOA_U
ClientSampleId :
MDL02

Tot Ion	Ratio	Lower	Upper
128	100		
127	11.4	10.8	16.2
129	8.9	8.7	13.1

Manual Integrations
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#72
1,2,3-Trichlorobenzene
Concen: 1.860 ug/L
RT: 13.98 min Scan# 4009
Delta R.T. 0.01 min
Lab File: VU033478.D
Acq: 29 Jul 2019 19:15

Tgt Ion	Ratio	Lower	Upper
180	100		
182	87.3	76.4	114.6
145	31.9	24.9	37.3

