

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX112120\
 Data File : VX019503.D
 Acq On : 20 Nov 2020 18:12
 Operator : JC/MD
 Sample : L4827-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 201118060-02-VOA

Manual Integrations
 APPROVED

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 11/23/2020 3:51:10 PM

Quant Time: Nov 21 04:25:37 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X112120W.M
 Quant Title : SW846 8260
 QLast Update : Sat Nov 21 01:57:45 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	273751	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	446355	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	386005	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	174977	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.03	65	169999	47.89	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	95.78%
35) Dibromofluoromethane	5.46	113	128077	45.71	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	91.42%
50) Toluene-d8	8.70	98	525128	48.23	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	96.46%
62) 4-Bromofluorobenzene	11.12	95	179038	45.71	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	91.42%

Target Compounds

					Qvalue
4) Vinyl Chloride	1.39	62	1184	0.360	ug/l # 81
8) Diethyl Ether	2.17	74	9433	4.963	ug/l 98
11) Tert butyl alcohol	3.05	59	2386970	3553.473	ug/l 100
16) Acetone	2.43	43	19123	13.932	ug/l 97
19) Methyl tert-butyl Ether	3.17	73	24195	2.579	ug/l 98
27) cis-1,2-Dichloroethene	4.57	96	1489	0.421	ug/l # 20
29) Tetrahydrofuran	5.09	42	695697	528.800	ug/l 99
40) Benzene	6.11	78	29782	2.316	ug/l 98
42) 1,2-Dichloroethane	6.15	62	2190	0.497	ug/l 91
49) 1,4-Dioxane	7.72	88	6069	86.427	ug/l 96
51) 4-Methyl-2-Pentanone	8.62	43	22849	5.933	ug/l # 75
52) Toluene	8.76	92	10870	1.382	ug/l 97
65) Chlorobenzene	10.12	112	7265	0.915	ug/l 89
67) Ethyl Benzene	10.23	91	23792	1.711	ug/l 100
68) m/p-Xylenes	10.34	106	31009	5.986	ug/l 98
69) o-Xylene	10.68	106	23312	4.708	ug/l 99
73) Isopropylbenzene	11.00	105	7333	0.606	ug/l 99
80) 1,3,5-Trimethylbenzene	11.49	105	7159	0.705	ug/l 99
84) 1,2,4-Trimethylbenzene	11.79	105	16234	1.580	ug/l 98
86) p-Isopropyltoluene	12.05	119	5753m	0.542	ug/l
88) 1,4-Dichlorobenzene	12.08	146	20799	3.558	ug/l 89
91) 1,2-Dichlorobenzene	12.37	146	1704	0.299	ug/l 90
95) Naphthalene	13.82	128	9341	2.870	ug/l 98

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

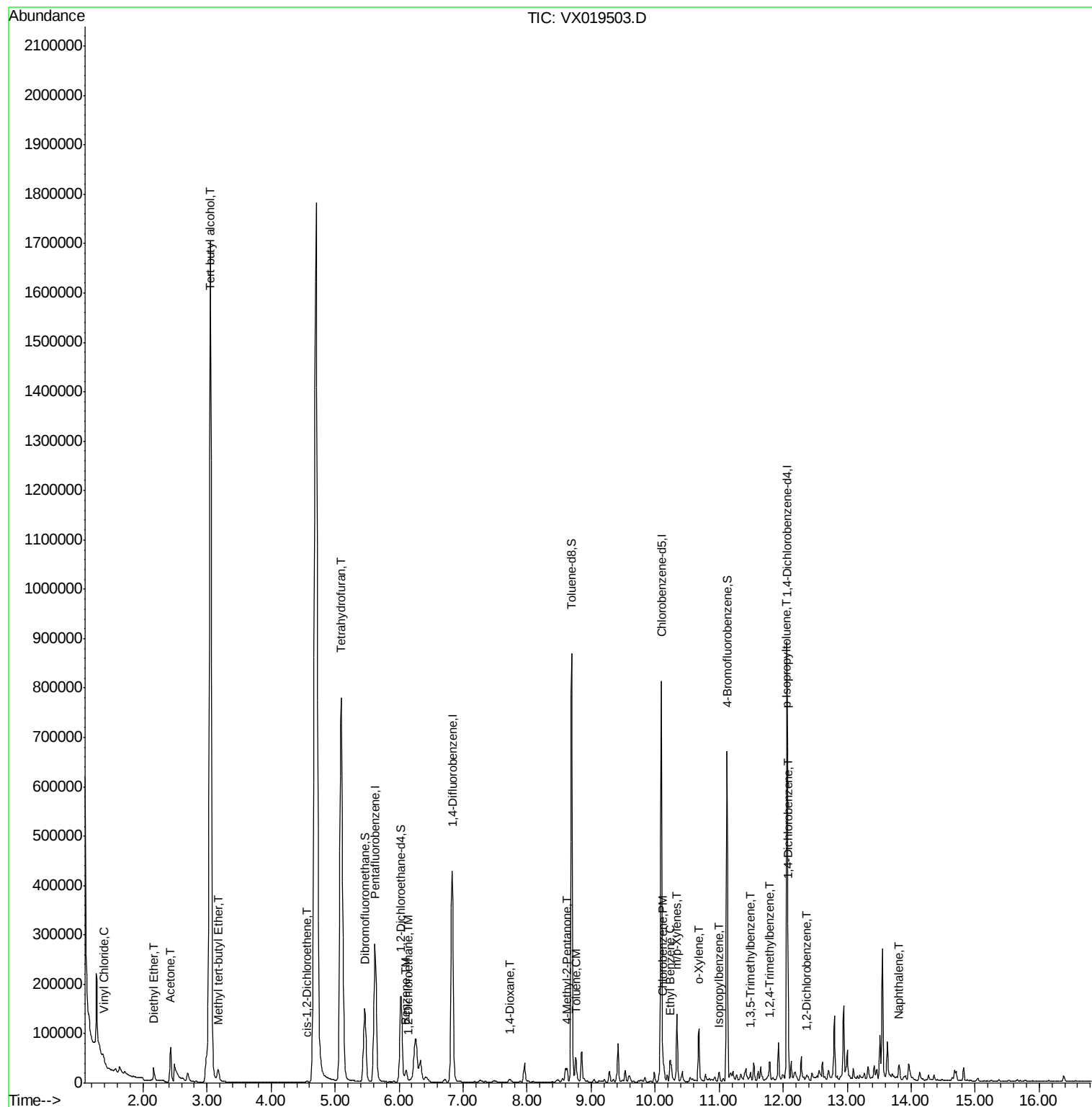
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX112120\
Data File : VX019503.D
Acq On : 20 Nov 2020 18:12
Operator : JC/MD
Sample : L4827-01
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 18 Sample Multiplier: 1

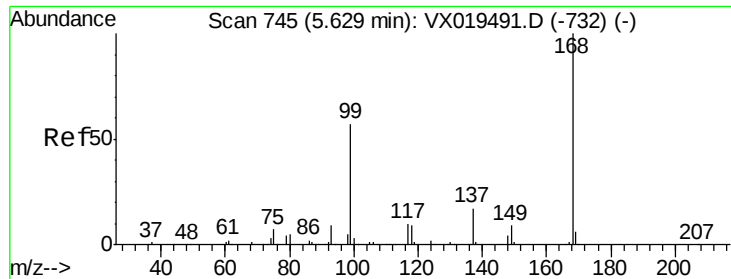
Instrument :
MSVOA_X
ClientSampleId :
201118060-02-VOA

Manual Integrations
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Quant Time: Nov 21 04:25:37 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X112120W.M
Quant Title : SW846 8260
QLast Update : Sat Nov 21 01:57:45 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.00 min

Lab File: VX019503.D

Acq: 20 Nov 2020 18:12

Instrument :

MSVOA_X

ClientSampleId :

201118060-02-VOA

Tot Ion:168 Resp: 273751

Ion Ratio Lower Upper

168 100

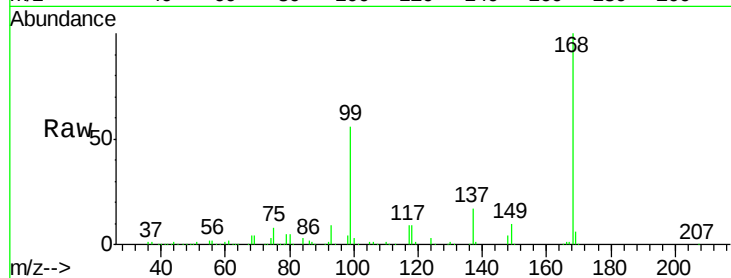
99 55.6 45.8 68.6

Manual Integrations

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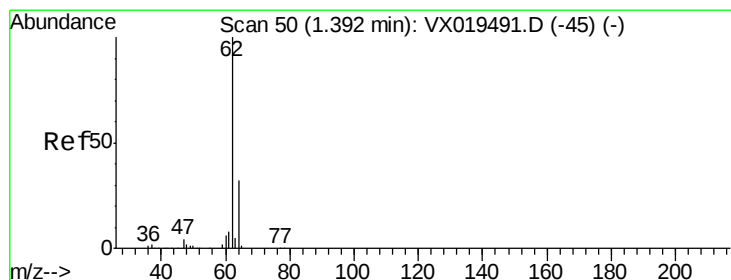
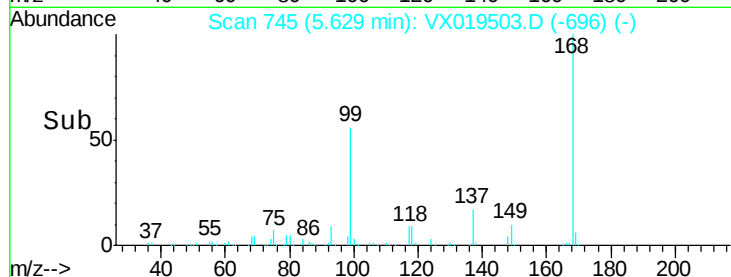
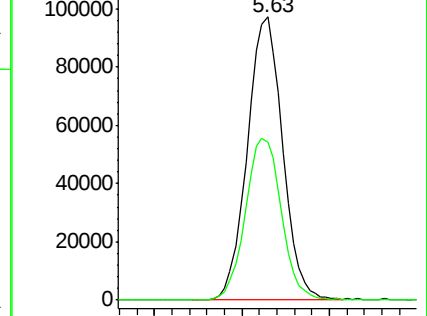
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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#4

Vinyl Chloride

Concen: 0.360 ug/l

RT: 1.39 min Scan# 50

Delta R.T. -0.00 min

Lab File: VX019503.D

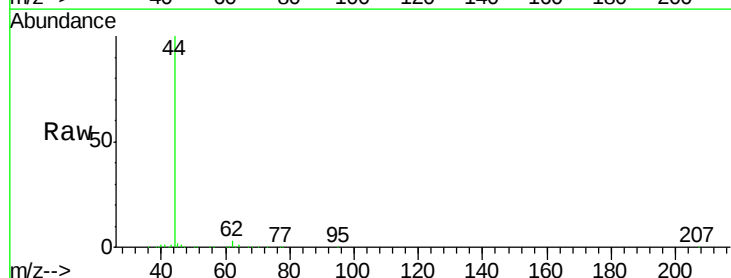
Acq: 20 Nov 2020 18:12

Tgt Ion: 62 Resp: 1184

Ion Ratio Lower Upper

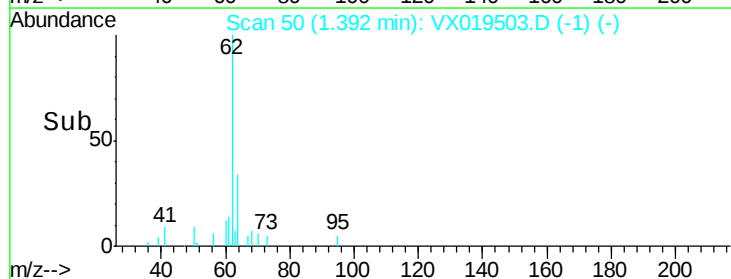
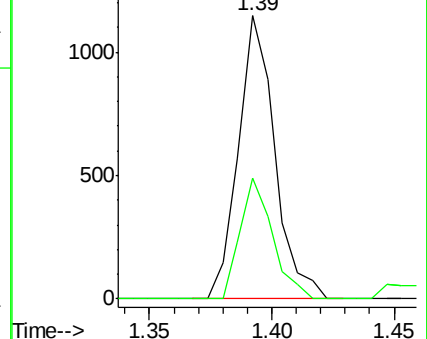
62 100

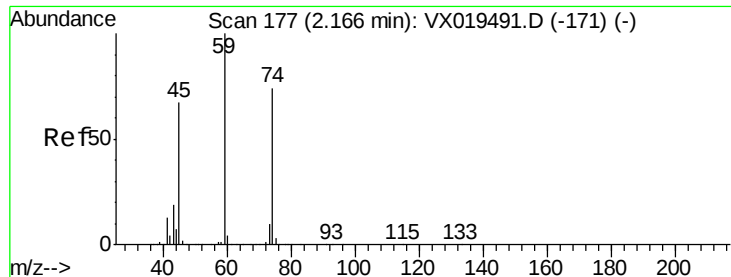
64 42.5 25.4 38.2#



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0





#8

Diethyl Ether

Concen: 4.963 ug/l

RT: 2.17 min Scan# 177

Delta R.T. -0.00 min

Lab File: VX019503.D

Acq: 20 Nov 2020 18:12

Instrument :

MSVOA_X

ClientSampleId :

201118060-02-VOA

Tot Ion: 74 Resp: 9433

Ion Ratio Lower Upper

74 100

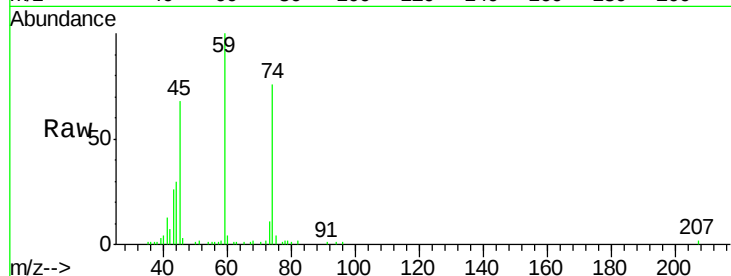
45 91.0 44.4 133.2

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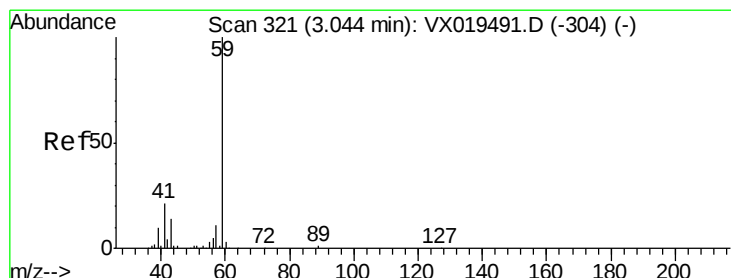
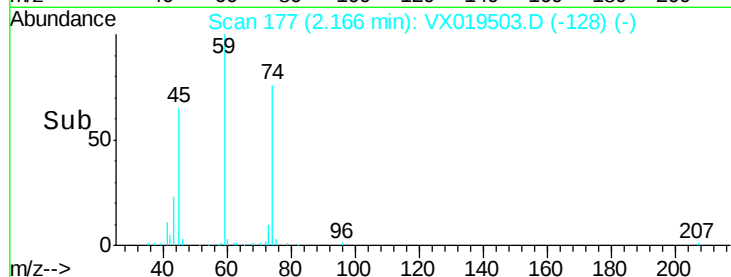
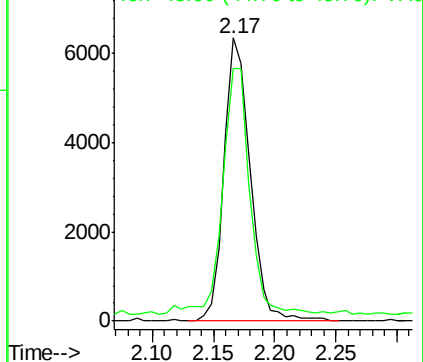
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Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0



#11

Tert butyl alcohol

Concen: 3553.473 ug/l

RT: 3.05 min Scan# 322

Delta R.T. 0.01 min

Lab File: VX019503.D

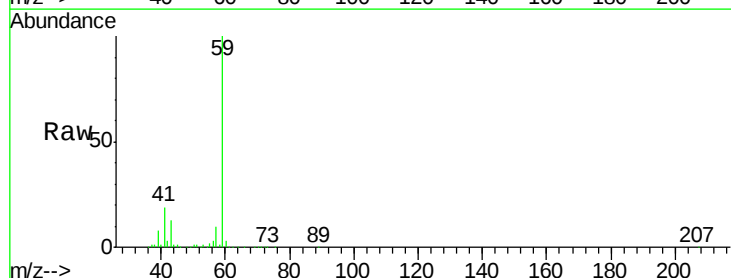
Acq: 20 Nov 2020 18:12

Tgt Ion: 59 Resp: 2386970

Ion Ratio Lower Upper

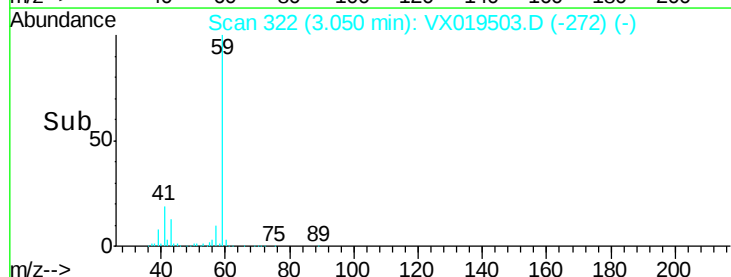
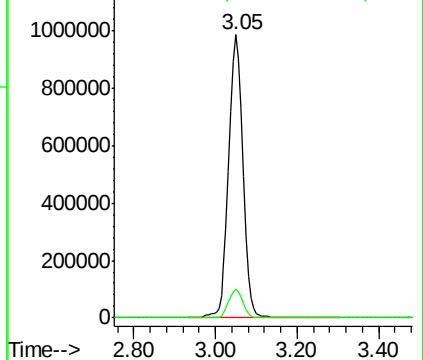
59 100

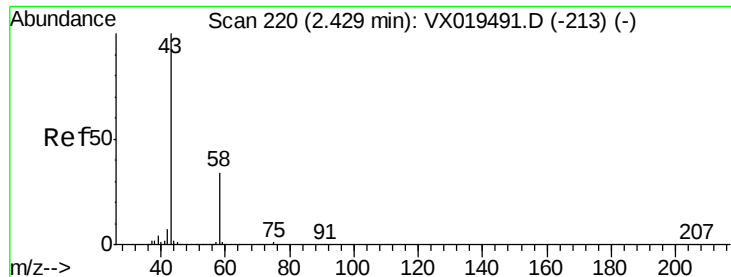
57 10.0 7.9 11.9



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#16

Acetone

Concen: 13.932 ug/l

RT: 2.43 min Scan# 220

Delta R.T. -0.00 min

Lab File: VX019503.D

Acq: 20 Nov 2020 18:12

Instrument :

MSVOA_X

ClientSampleId :

201118060-02-VOA

Tot Ion: 43 Resp: 19123

Ion Ratio Lower Upper

43 100

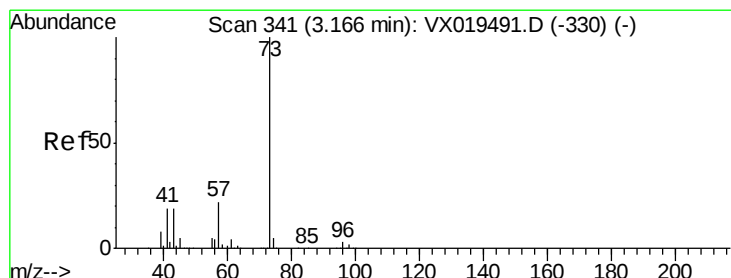
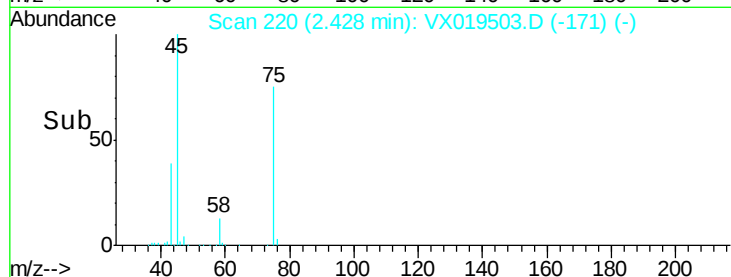
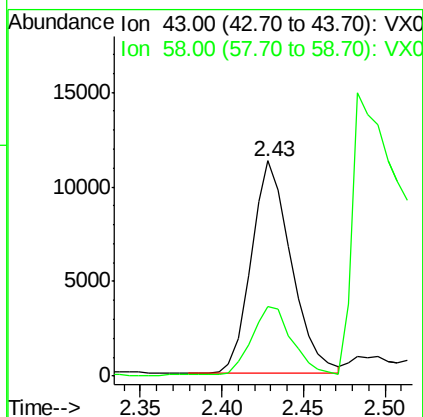
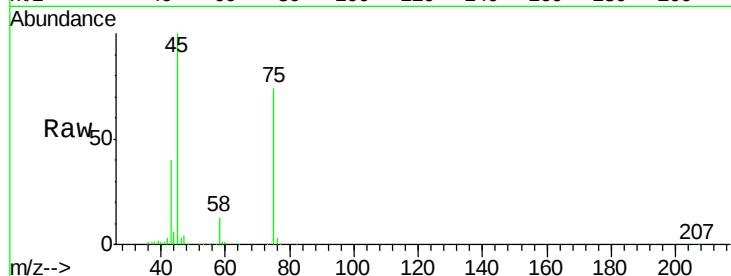
58 32.4 27.4 41.2

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#19

Methyl tert-butyl Ether

Concen: 2.579 ug/l

RT: 3.17 min Scan# 342

Delta R.T. 0.01 min

Lab File: VX019503.D

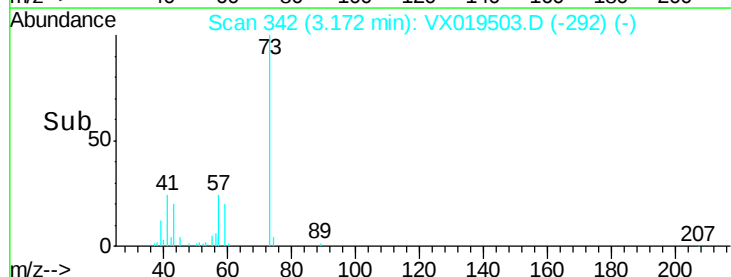
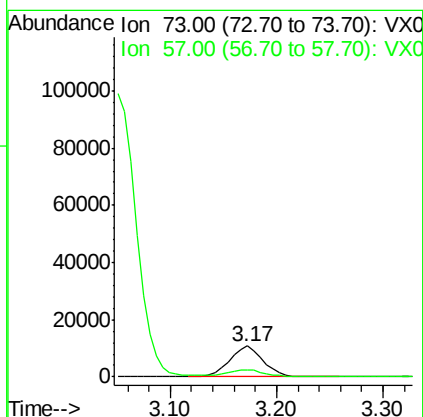
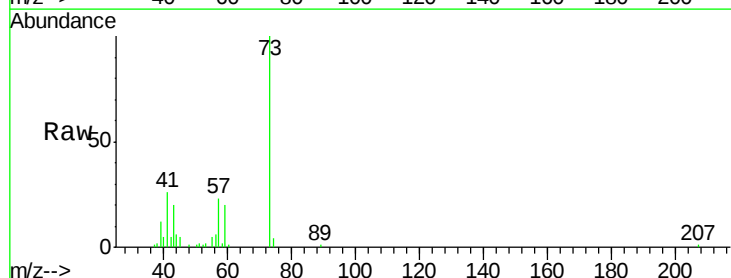
Acq: 20 Nov 2020 18:12

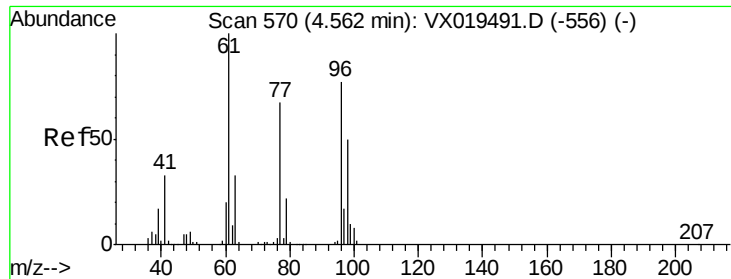
Tgt Ion: 73 Resp: 24195

Ion Ratio Lower Upper

73 100

57 22.6 17.3 25.9





#27

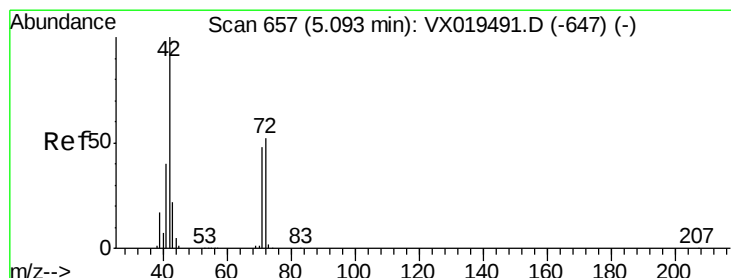
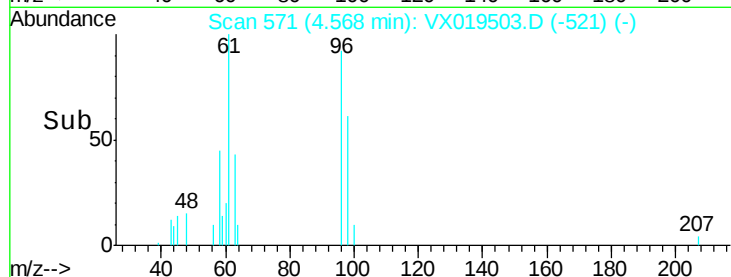
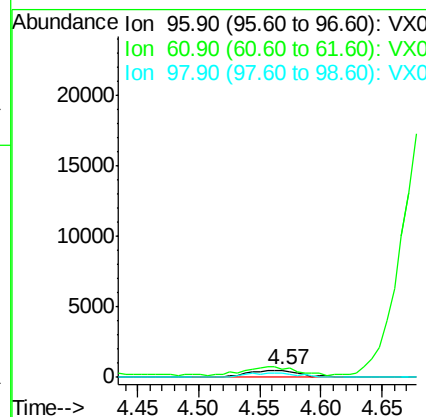
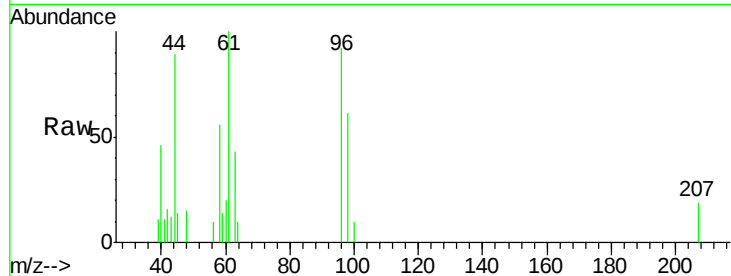
cis-1,2-Dichloroethene
 Concen: 0.421 ug/l
 RT: 4.57 min Scan# 571
 Delta R.T. 0.01 min
 Lab File: VX019503.D
 Acq: 20 Nov 2020 18:12

Instrument :
 MSVOA_X
 ClientSampleId :
 201118060-02-VOA

Tot Ion	Ratio	Lower	Upper
96	100		
61	0.0	0.0	279.2
98	60.8	0.0	129.8

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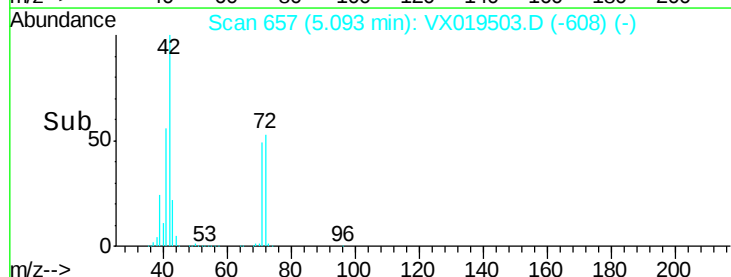
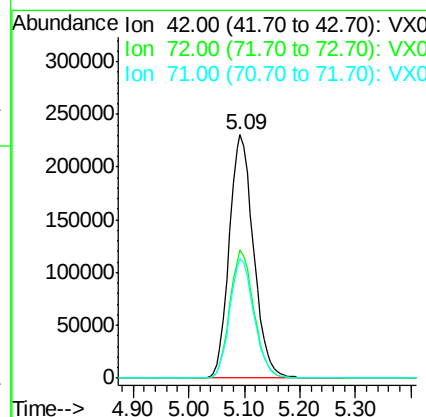
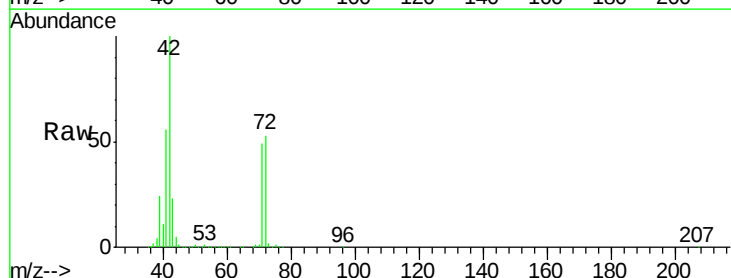
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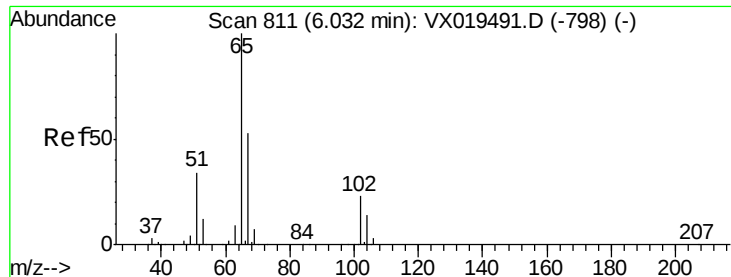


#29

Tetrahydrofuran
 Concen: 528.800 ug/l
 RT: 5.09 min Scan# 657
 Delta R.T. -0.00 min
 Lab File: VX019503.D
 Acq: 20 Nov 2020 18:12

Tgt Ion	Ratio	Lower	Upper
42	100		
72	52.1	42.6	63.8
71	49.0	39.0	58.6





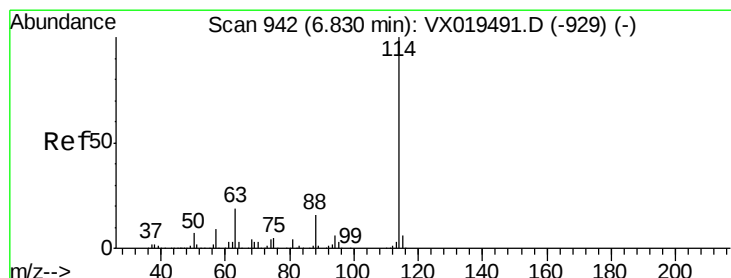
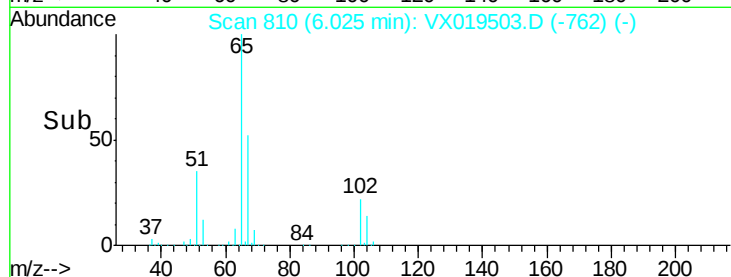
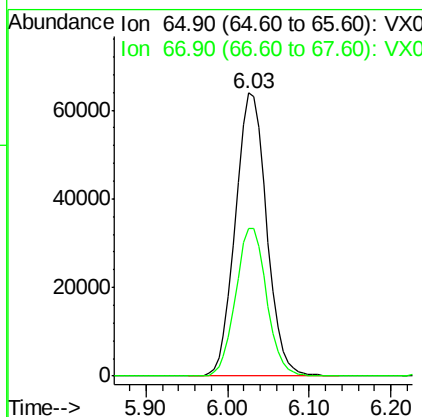
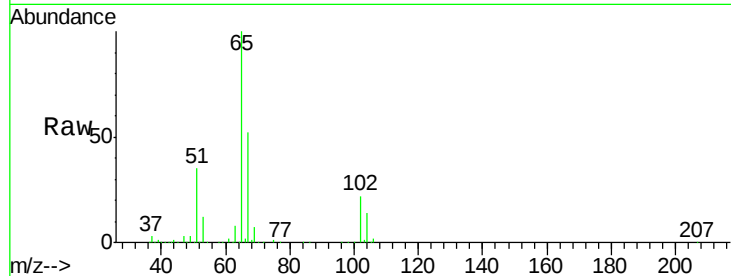
#33
 1,2-Dichloroethane-d4
 Concen: 47.895 ug/l
 RT: 6.03 min Scan# 810
 Delta R.T. -0.01 min
 Lab File: VX019503.D
 Acq: 20 Nov 2020 18:12

Instrument :
 MSVOA_X
 ClientSampleId :
 201118060-02-VOA

Tot Ion	Ratio	Resp	Lower	Upper
65	100	169999		
67	52.0	0.0	105.0	

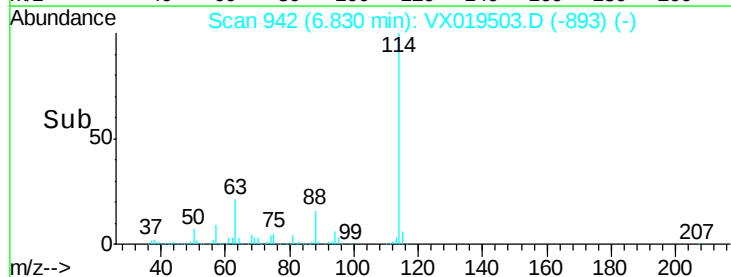
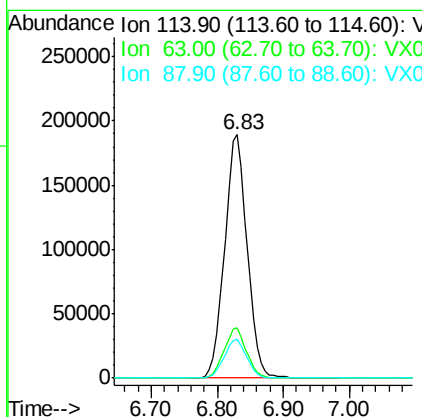
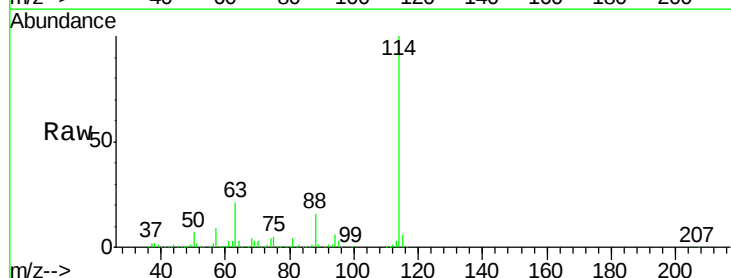
Manual Integrations
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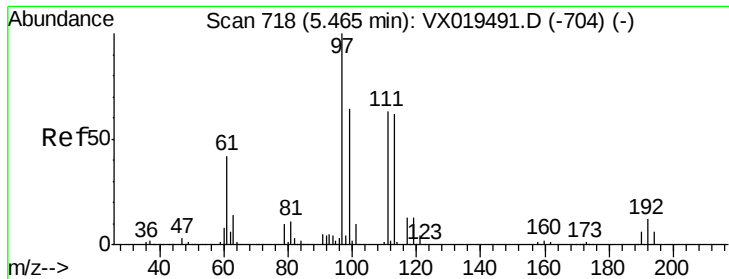
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.83 min Scan# 942
 Delta R.T. -0.00 min
 Lab File: VX019503.D
 Acq: 20 Nov 2020 18:12

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	446355		
63	20.5	0.0	38.8	
88	16.0	0.0	31.6	





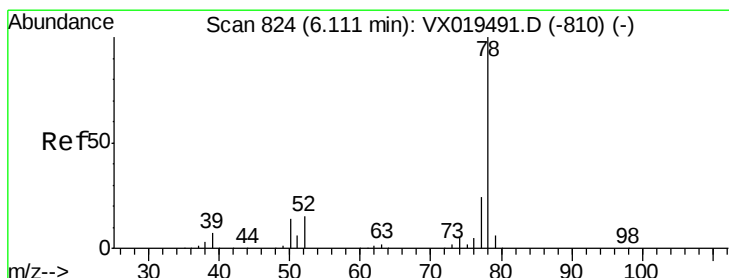
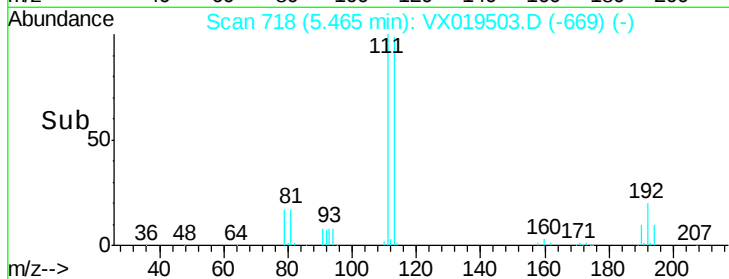
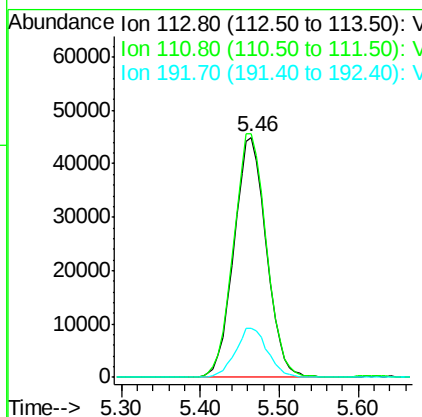
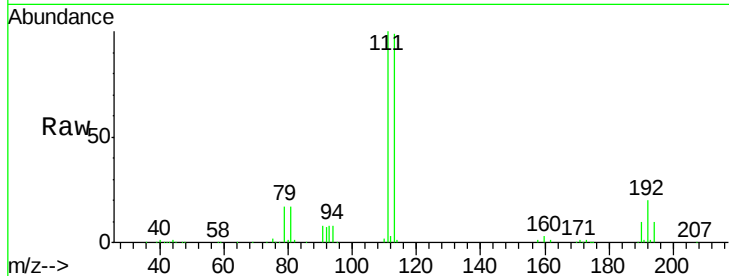
#35
Dibromofluoromethane
Concen: 45.713 ug/l
RT: 5.46 min Scan# 718
Delta R.T. -0.00 min
Lab File: VX019503.D
Acq: 20 Nov 2020 18:12

Instrument :
MSVOA_X
ClientSampleId :
201118060-02-VOA

Tot Ion	Ratio	Resp	Lower	Upper
113	100	128077		
111	103.1	81.5	122.3	
192	20.2	16.2	24.2	

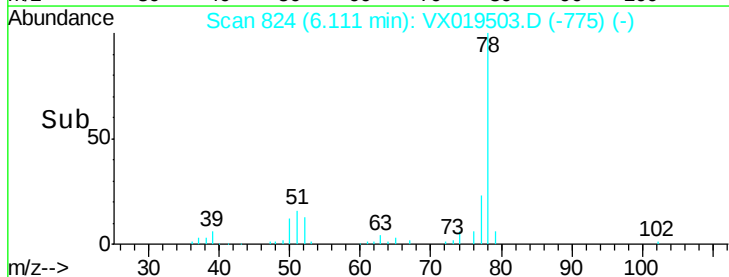
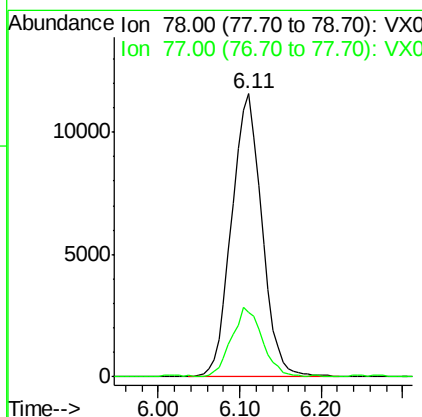
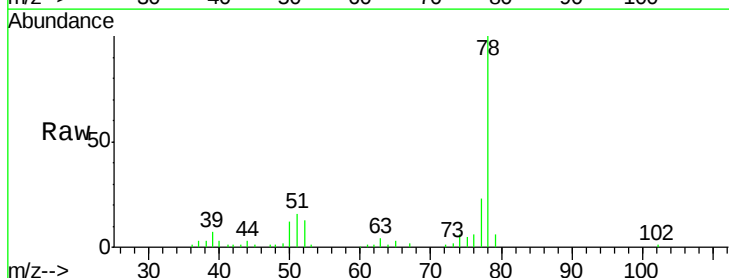
Manual Integrations
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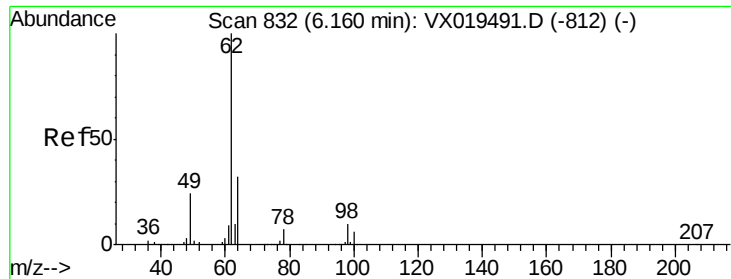
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#40
Benzene
Concen: 2.316 ug/l
RT: 6.11 min Scan# 824
Delta R.T. -0.00 min
Lab File: VX019503.D
Acq: 20 Nov 2020 18:12

Tgt Ion	Ratio	Resp	Lower	Upper
78	100	29782		
77	22.8	18.9	28.3	





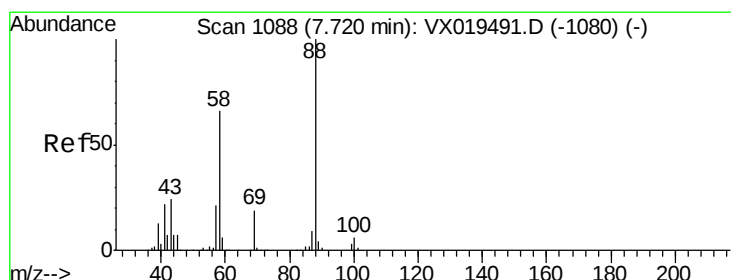
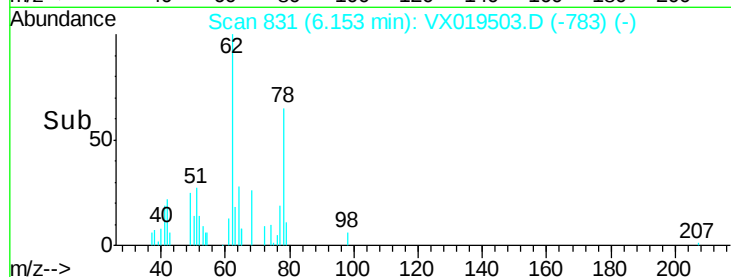
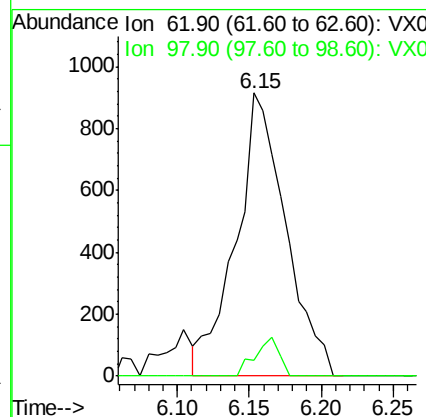
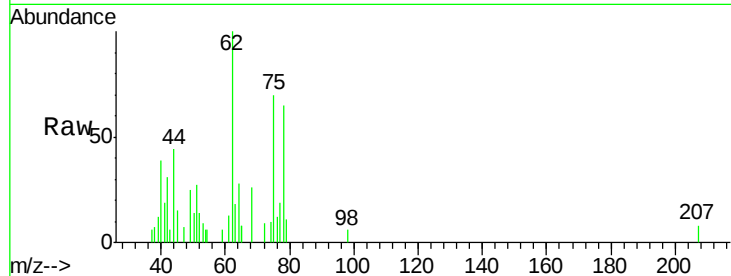
#42
 1,2-Dichloroethane
 Concen: 0.497 ug/l
 RT: 6.15 min Scan# 831
 Delta R.T. -0.01 min
 Lab File: VX019503.D
 Acq: 20 Nov 2020 18:12

Instrument :
 MSVOA_X
 ClientSampleId :
 201118060-02-VOA

Tot Ion: 62 Resp: 2190
 Ion Ratio Lower Upper
 62 100
 98 6.6 0.0 20.0

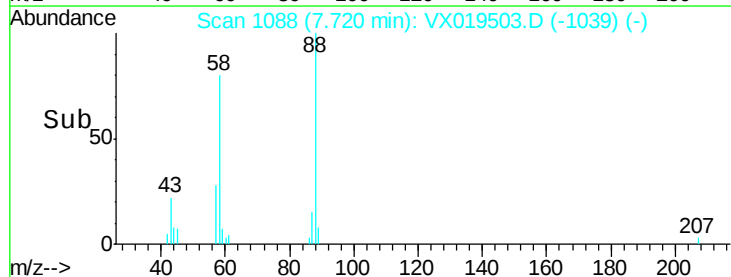
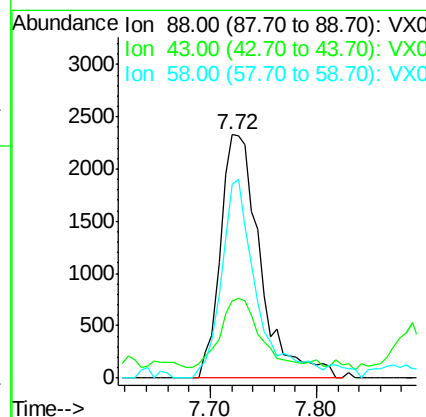
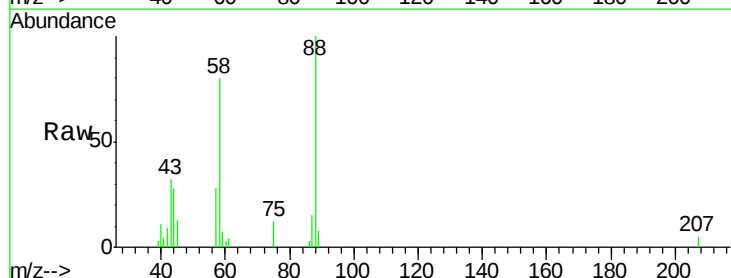
Manual Integrations
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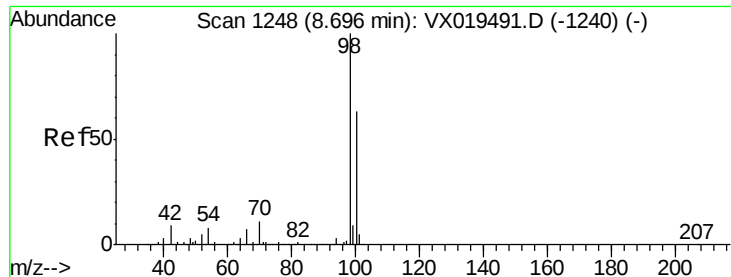
MMDadoda
 11/23/2020 3:51:10 PM



#49
 1,4-Dioxane
 Concen: 86.427 ug/l
 RT: 7.72 min Scan# 1088
 Delta R.T. -0.00 min
 Lab File: VX019503.D
 Acq: 20 Nov 2020 18:12

Tgt Ion: 88 Resp: 6069
 Ion Ratio Lower Upper
 88 100
 43 28.3 23.8 35.6
 58 71.6 54.2 81.2





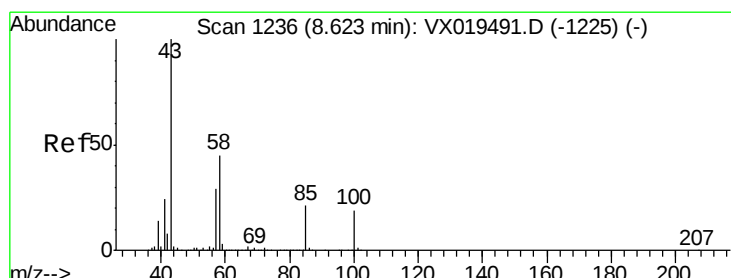
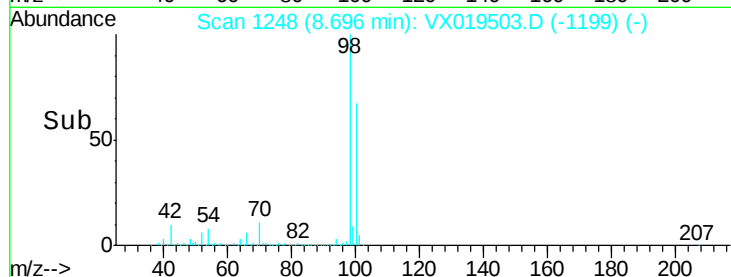
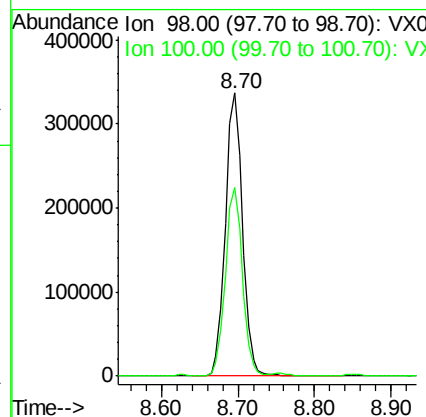
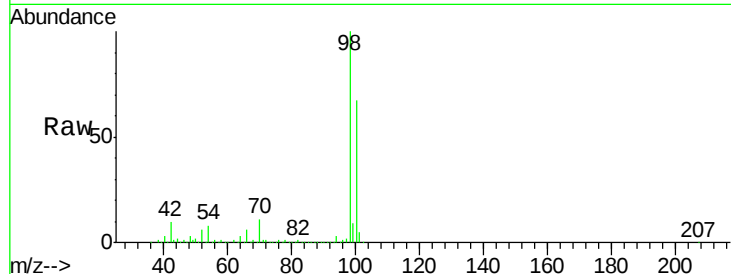
#50
Toluene-d8
Concen: 48.233 ug/l
RT: 8.70 min Scan# 1248
Delta R.T. -0.00 min
Lab File: VX019503.D
Acq: 20 Nov 2020 18:12

Instrument :
MSVOA_X
ClientSampleId :
201118060-02-VOA

Tot Ion	Ratio	Lower	Upper
98	100		
100	65.9	52.4	78.6

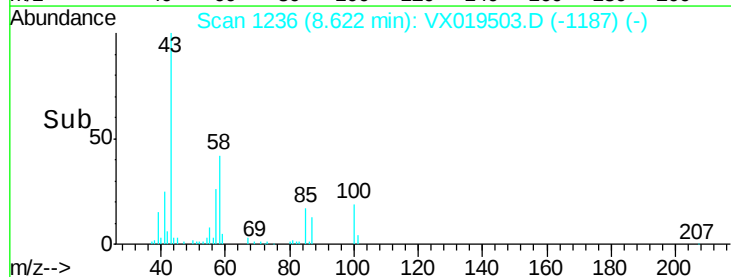
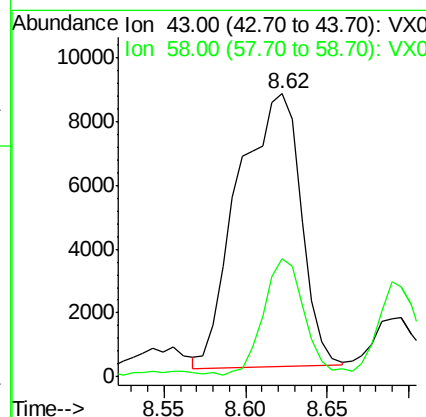
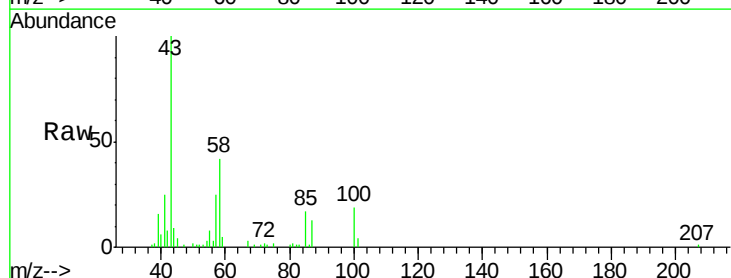
Manual Integrations
APPROVED

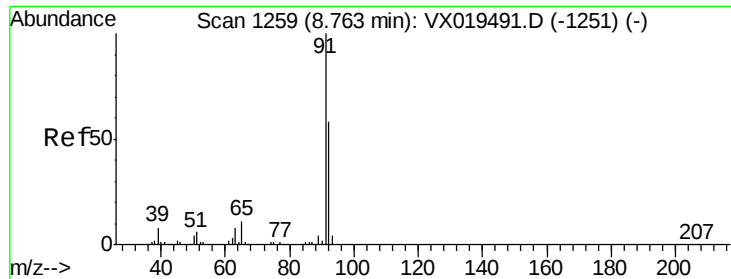
MMDadoda
11/23/2020 3:51:10 PM



#51
4-Methyl-2-Pentanone
Concen: 5.933 ug/l
RT: 8.62 min Scan# 1236
Delta R.T. -0.00 min
Lab File: VX019503.D
Acq: 20 Nov 2020 18:12

Tgt Ion	Ratio	Lower	Upper
43	100		
58	27.6	35.1	52.7#





#52

Toluene

Concen: 1.382 ug/l

RT: 8.76 min Scan# 1259

Delta R.T. -0.00 min

Lab File: VX019503.D

Acq: 20 Nov 2020 18:12

Instrument :

MSVOA_X

ClientSampleId :

201118060-02-VOA

Tot Ion: 92 Resp: 10870

Ion Ratio Lower Upper

92 100

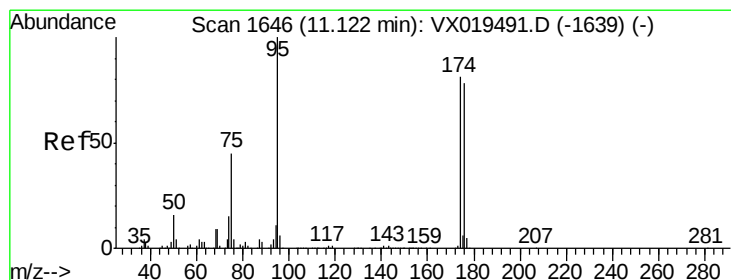
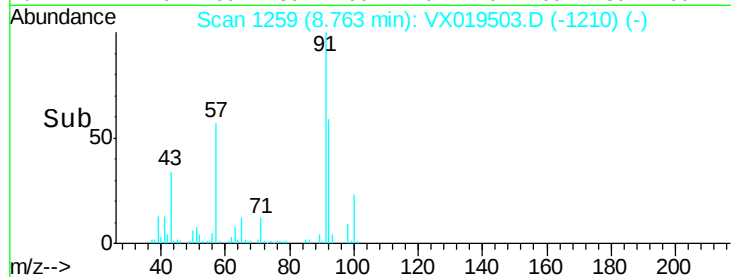
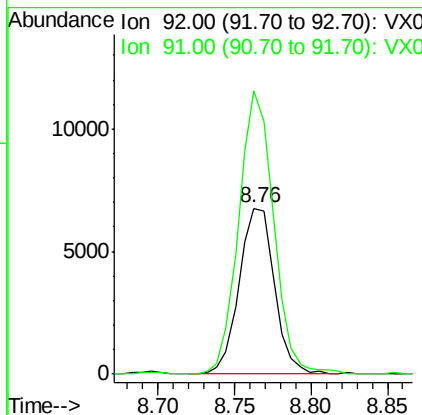
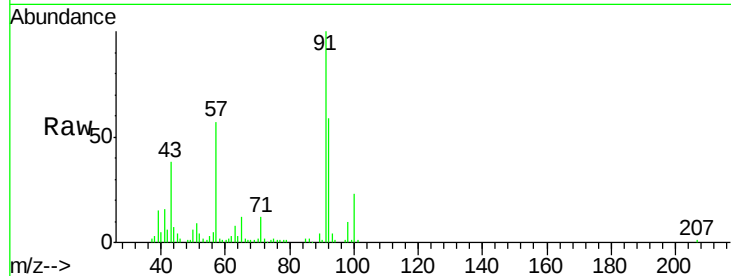
91 168.4 138.1 207.1

Manual Integrations

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#62

4-Bromofluorobenzene

Concen: 45.706 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX019503.D

Acq: 20 Nov 2020 18:12

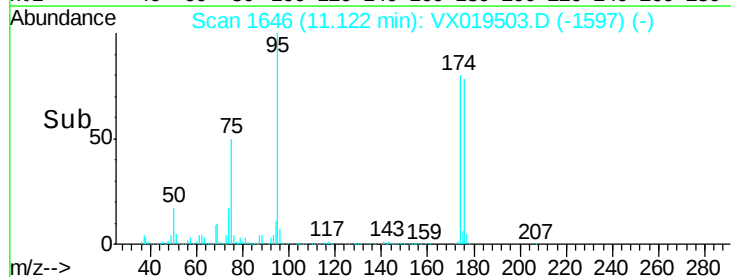
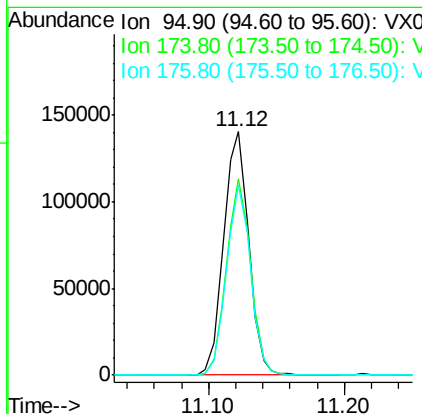
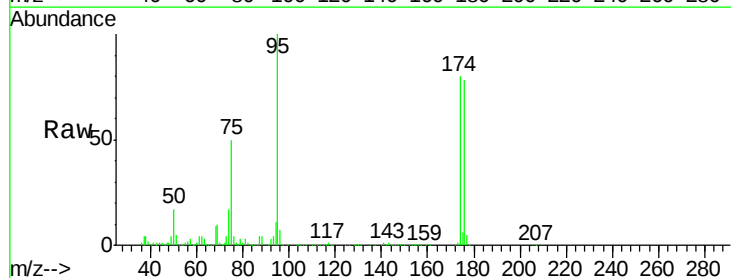
Tgt Ion: 95 Resp: 179038

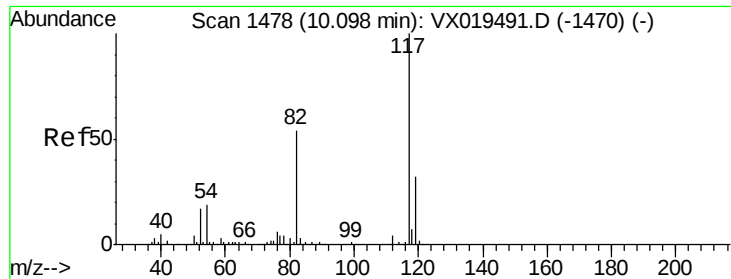
Ion Ratio Lower Upper

95 100

174 78.3 0.0 156.2

176 75.2 0.0 151.4





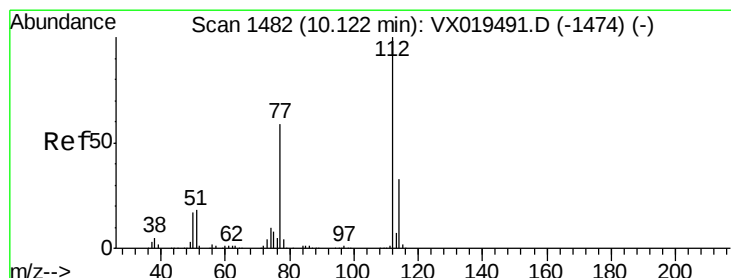
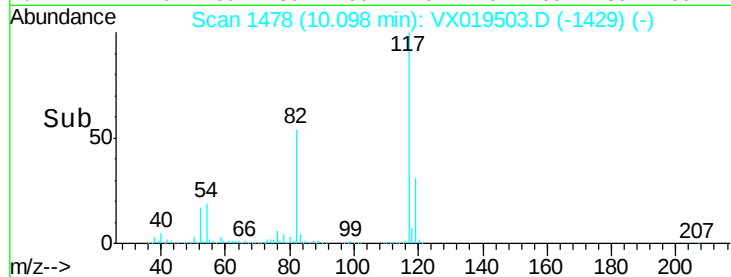
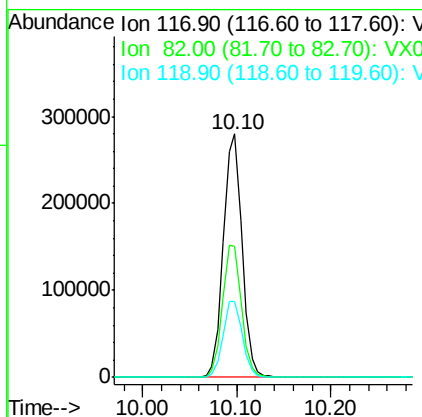
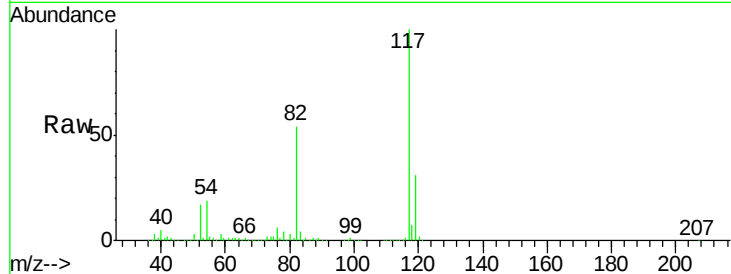
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX019503.D
Acq: 20 Nov 2020 18:12

Instrument :
MSVOA_X
ClientSampleId :
201118060-02-VOA

Tot Ion	Ratio	Resp	Lower	Upper
117	100	386005		
82	54.0		43.0	64.4
119	31.2		25.6	38.4

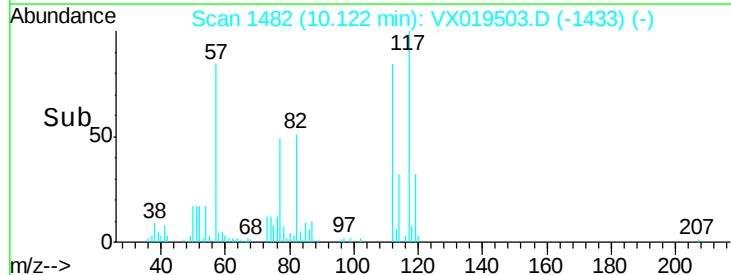
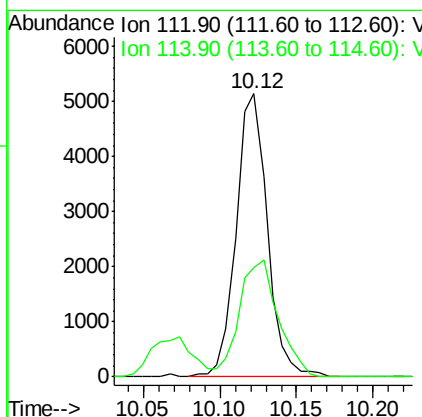
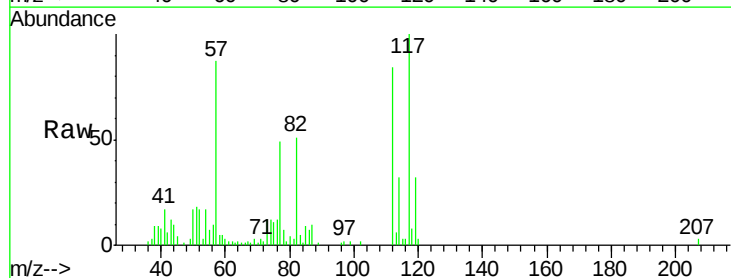
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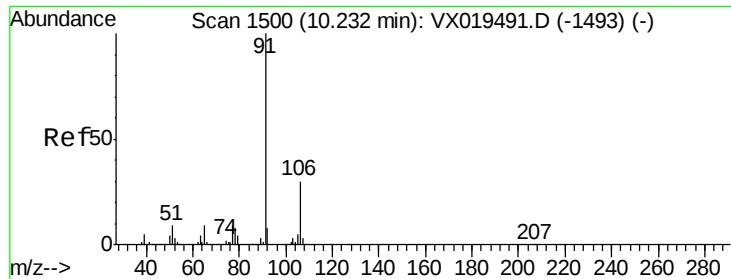
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#65
Chlorobenzene
Concen: 0.915 ug/l
RT: 10.12 min Scan# 1482
Delta R.T. -0.00 min
Lab File: VX019503.D
Acq: 20 Nov 2020 18:12

Tgt Ion	Ratio	Resp	Lower	Upper
112	100	7265		
114	38.4		26.0	39.0





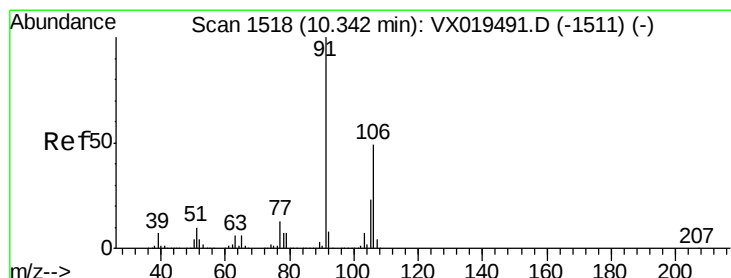
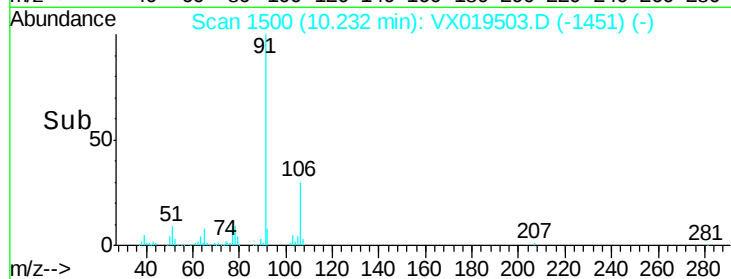
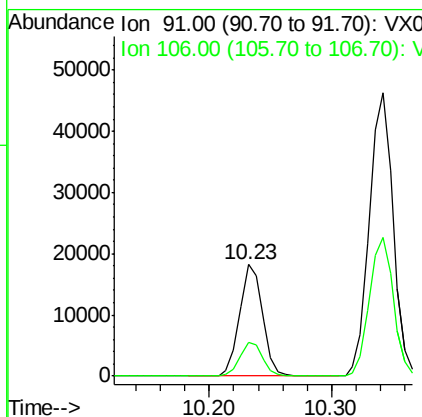
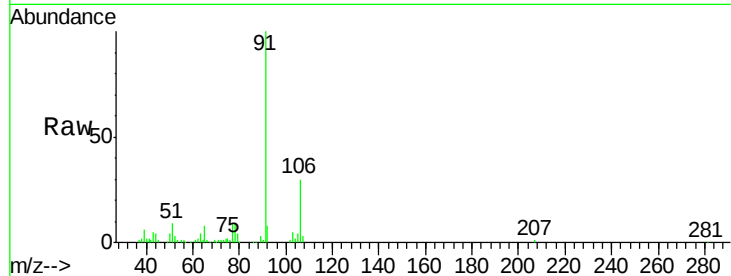
#67
Ethyl Benzene
Concen: 1.711 ug/l
RT: 10.23 min Scan# 1500
Delta R.T. -0.00 min
Lab File: VX019503.D
Acq: 20 Nov 2020 18:12

Instrument :
MSVOA_X
ClientSampleId :
201118060-02-VOA

Tot Ion: 91 Resp: 23792
Ion Ratio Lower Upper
91 100
106 30.0 24.0 36.0

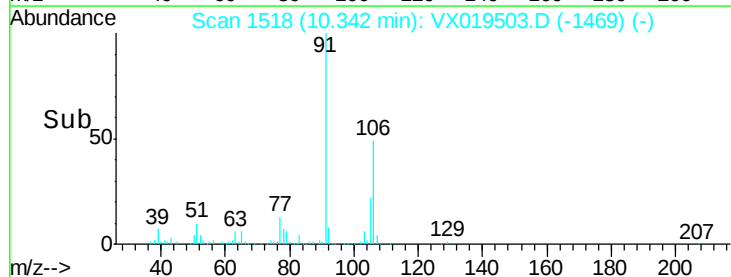
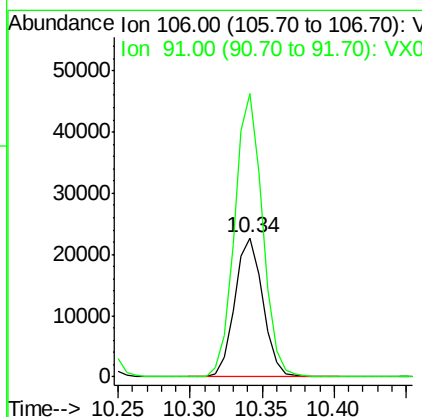
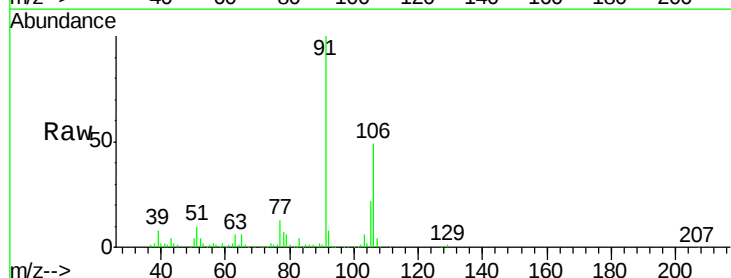
Manual Integrations
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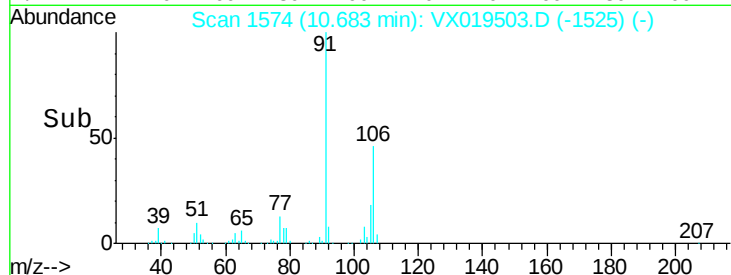
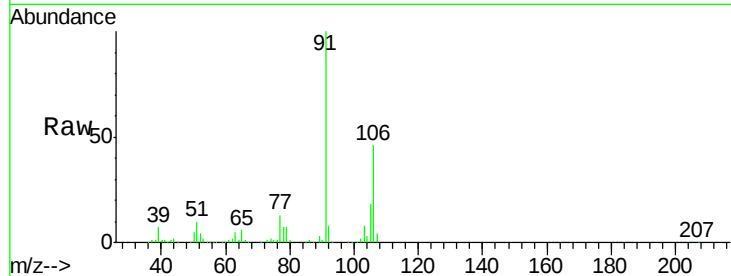
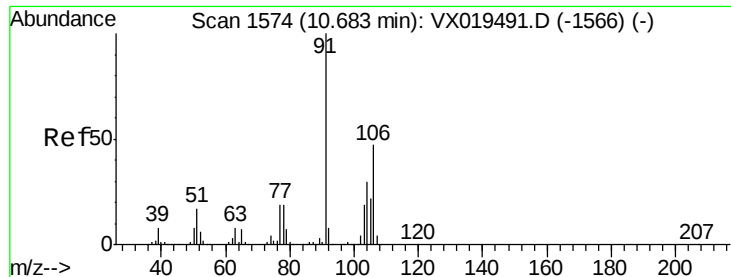
MMDadoda
11/23/2020 3:51:10 PM



#68
m/p-Xylenes
Concen: 5.986 ug/l
RT: 10.34 min Scan# 1518
Delta R.T. -0.00 min
Lab File: VX019503.D
Acq: 20 Nov 2020 18:12

Tgt Ion: 106 Resp: 31009
Ion Ratio Lower Upper
106 100
91 201.3 163.3 244.9





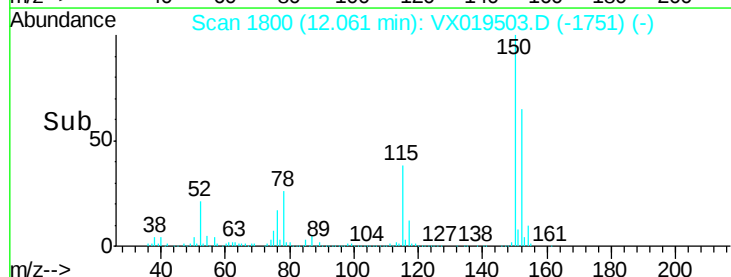
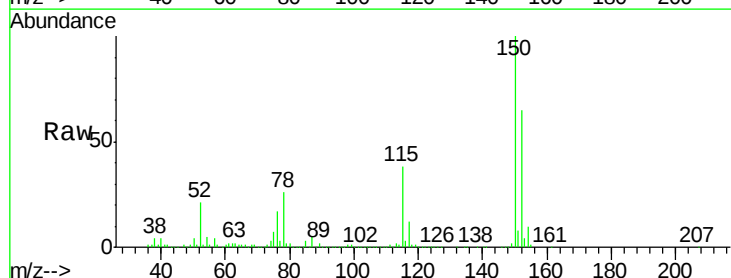
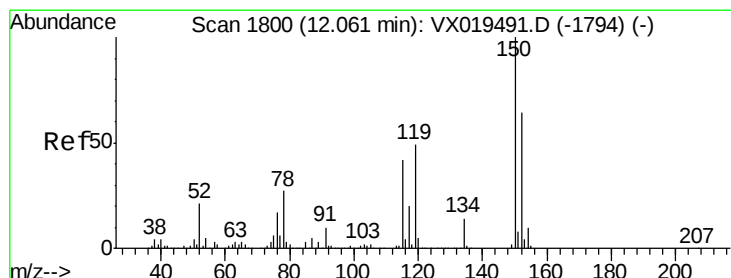
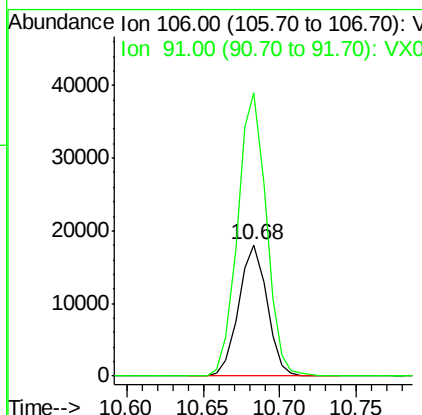
#69
o-Xylene
Concen: 4.708 ug/l
RT: 10.68 min Scan# 1574
Delta R.T. -0.00 min
Lab File: VX019503.D
Acq: 20 Nov 2020 18:12

Tot Ion:106 Resp: 23312
Ion Ratio Lower Upper
106 100
91 218.0 108.0 324.0

Instrument :
MSVOA_X
ClientSampleId :
201118060-02-VOA

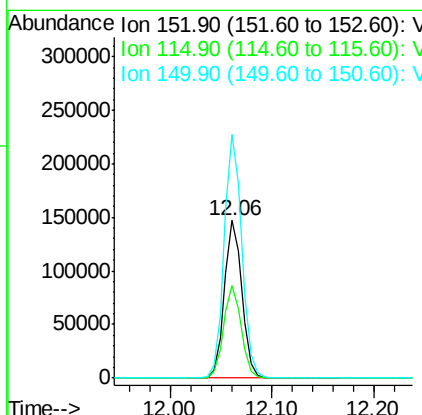
Manual Integrations
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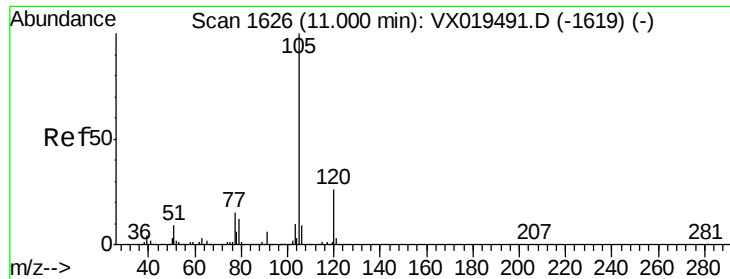
MMDadoda
11/23/2020 3:51:10 PM



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.06 min Scan# 1800
Delta R.T. -0.00 min
Lab File: VX019503.D
Acq: 20 Nov 2020 18:12

Tgt Ion:152 Resp: 174977
Ion Ratio Lower Upper
152 100
115 59.4 41.8 125.4
150 156.0 0.0 348.2





#73

Isopropylbenzene

Concen: 0.606 ug/l

RT: 11.00 min Scan# 1626

Delta R.T. -0.00 min

Lab File: VX019503.D

Acq: 20 Nov 2020 18:12

Instrument :

MSVOA_X

ClientSampleId :

201118060-02-VOA

Tot Ion:105 Resp: 7333

Ion Ratio Lower Upper

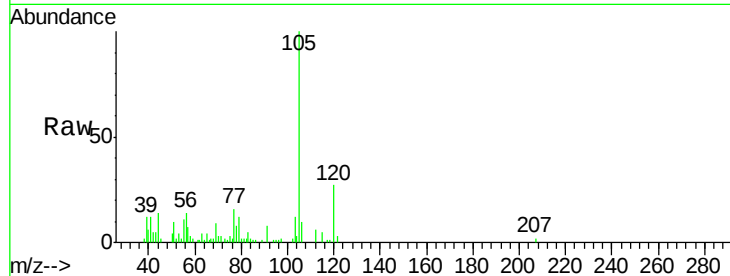
105 100

120 26.5 13.0 39.0

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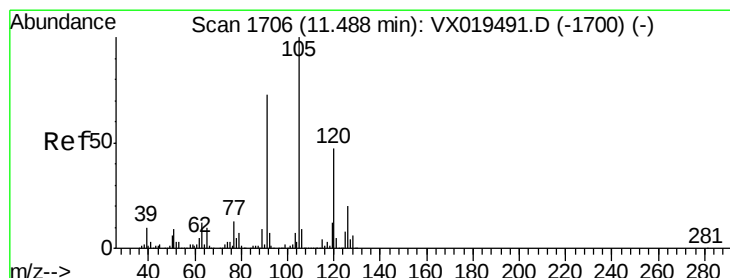
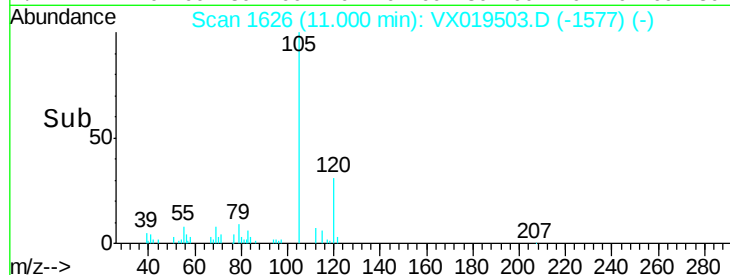
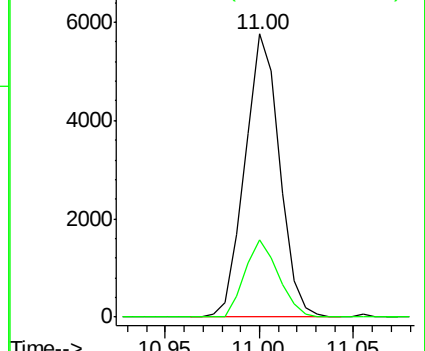
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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#80

1,3,5-Trimethylbenzene

Concen: 0.705 ug/l

RT: 11.49 min Scan# 1706

Delta R.T. -0.00 min

Lab File: VX019503.D

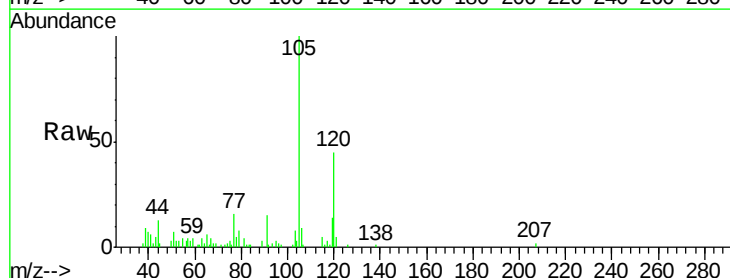
Acq: 20 Nov 2020 18:12

Tgt Ion:105 Resp: 7159

Ion Ratio Lower Upper

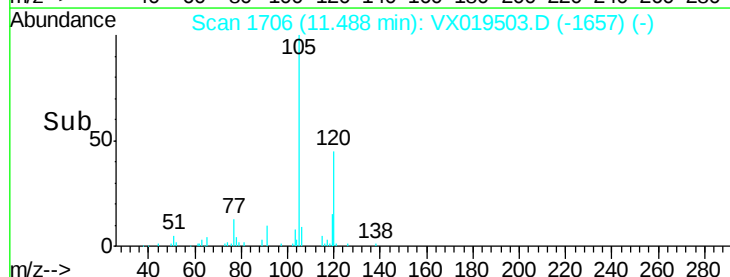
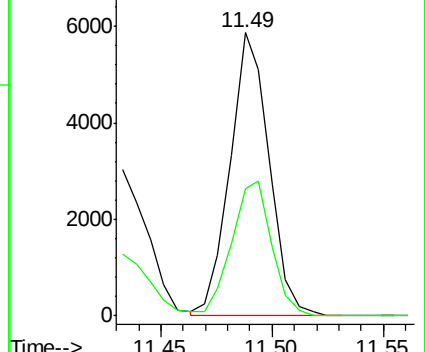
105 100

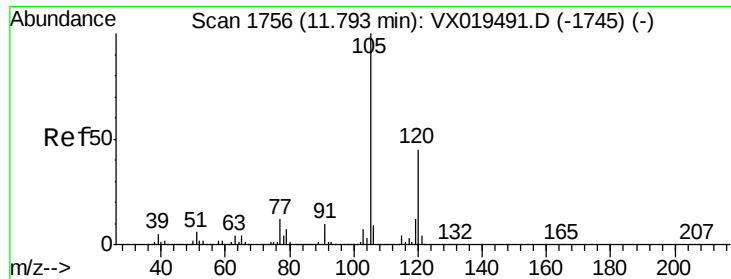
120 48.6 24.1 72.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





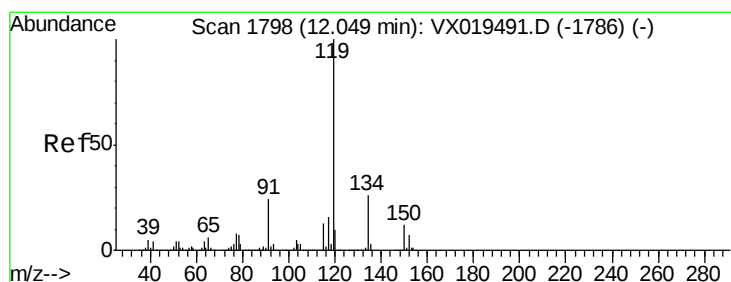
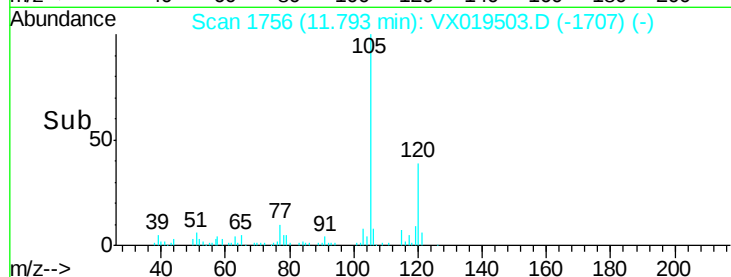
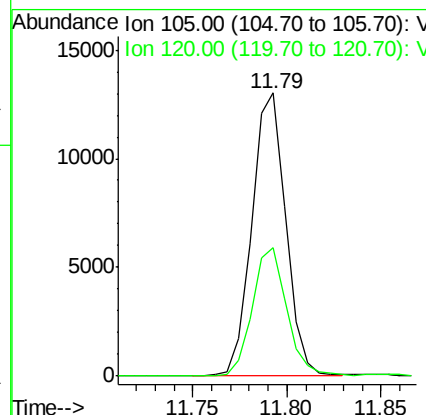
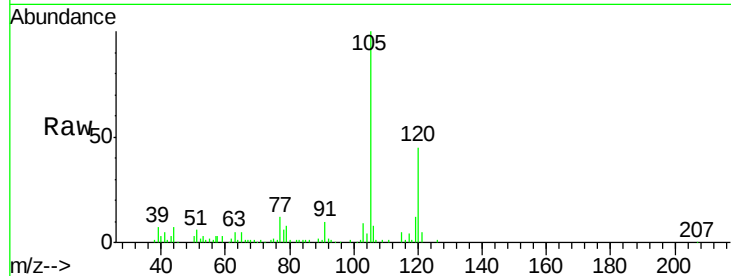
#84
 1,2,4-Trimethylbenzene
 Concen: 1.580 ug/l
 RT: 11.79 min Scan# 1756
 Delta R.T. -0.00 min
 Lab File: VX019503.D
 Acq: 20 Nov 2020 18:12

Instrument :
 MSVOA_X
 ClientSampleId :
 201118060-02-VOA

Tot Ion	Ratio	Lower	Upper
105	100		
120	46.0	22.2	66.6

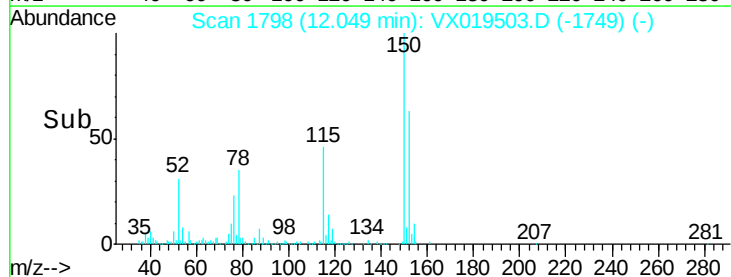
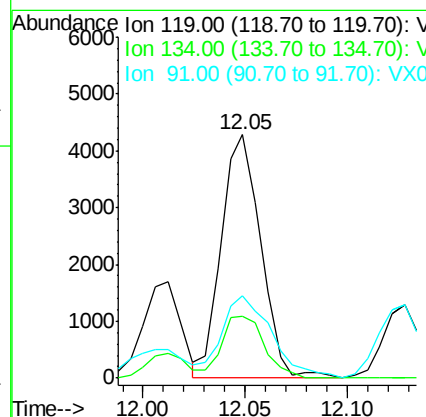
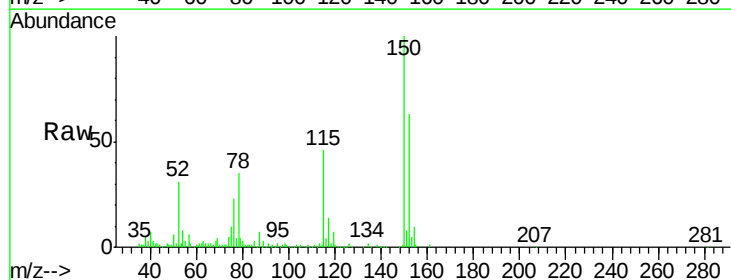
Manual Integrations
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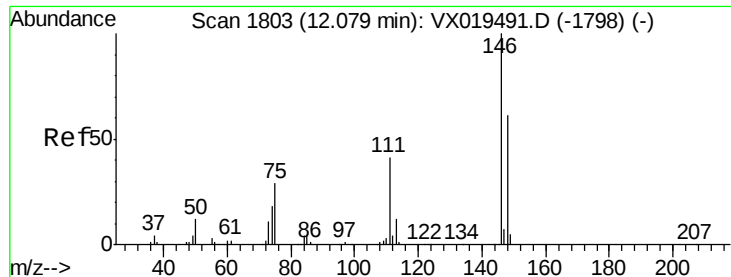
MMDadoda
 11/23/2020 3:51:10 PM



#86
 p-Isopropyltoluene
 Concen: 0.542 ug/l m
 RT: 12.05 min Scan# 1798
 Delta R.T. -0.00 min
 Lab File: VX019503.D
 Acq: 20 Nov 2020 18:12

Tgt Ion	Ratio	Lower	Upper
119	100		
134	10.9	13.1	39.3#
91	11.8	11.8	35.4





#88

1,4-Dichlorobenzene

Concen: 3.558 ug/l

RT: 12.08 min Scan# 1803

Delta R.T. -0.00 min

Lab File: VX019503.D

Acq: 20 Nov 2020 18:12

Instrument :

MSVOA_X

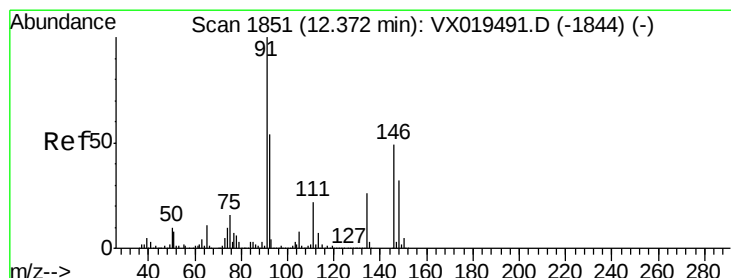
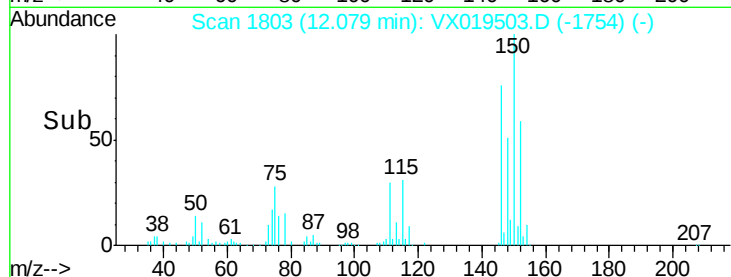
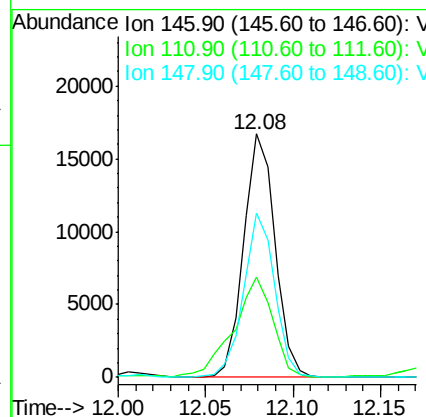
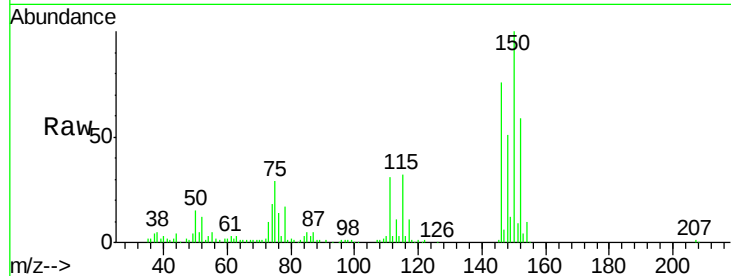
ClientSampleId :

201118060-02-VOA

Tot Ion:	146	Resp:	20799
Ion Ratio	Lower	Upper	
146	100		
111	52.0	19.9	59.6
148	67.3	31.7	95.1

Manual Integrations
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11/23/2020 3:51:10 PM



#91

1,2-Dichlorobenzene

Concen: 0.299 ug/l

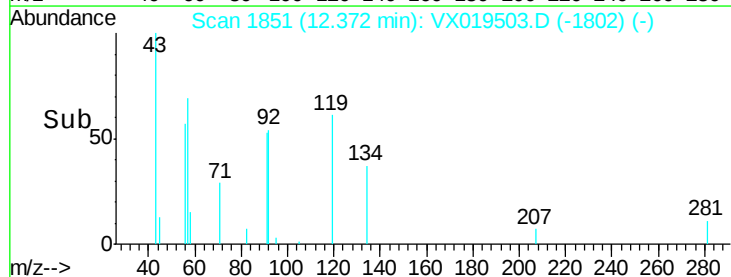
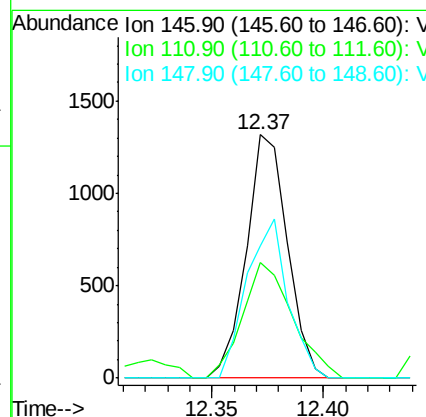
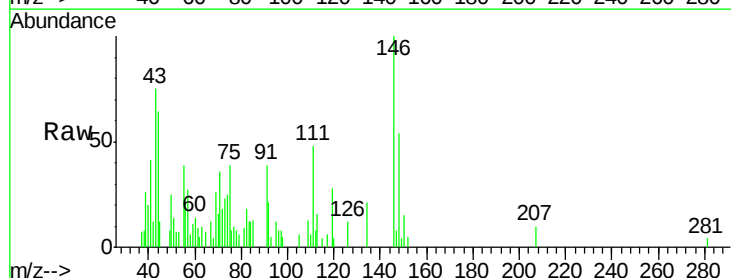
RT: 12.37 min Scan# 1851

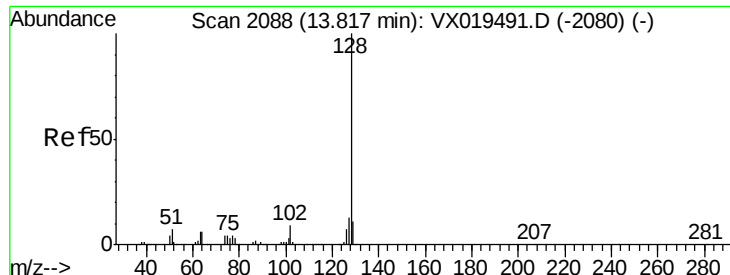
Delta R.T. -0.00 min

Lab File: VX019503.D

Acq: 20 Nov 2020 18:12

Tgt Ion:	146	Resp:	1704
Ion Ratio	Lower	Upper	
146	100		
111	57.6	21.1	63.3
148	65.1	32.4	97.0





#95
Naphthalene
Concen: 2.870 ug/l
RT: 13.82 min Scan# 2088
Delta R.T. 0.00 min
Lab File: VX019503.D
Acq: 20 Nov 2020 18:12

Instrument :
MSVOA_X
ClientSampleId :
201118060-02-VOA

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.9	10.3	15.5
129	11.6	8.7	13.1

Manual Integrations
APPROVED

MMDadoda
11/23/2020 3:51:10 PM

