

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX112020\
 Data File : VX019482.D
 Acq On : 19 Nov 2020 21:37
 Operator : JC/MD
 Sample : L4827-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 201118060-02-VOA

Manual Integrations
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 11/20/2020 12:25:17 PM

Quant Time: Nov 20 11:39:01 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X112020W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Nov 20 01:06:02 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	4.98	128	46319	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.82	114	250223	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.10	117	226597	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.03	65	100445	30.17	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	100.57%
60) 4-Bromofluorobenzene	11.12	95	105538	28.56	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	95.20%
63) Toluene-d8	8.70	98	303966	30.09	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	100.30%

Target Compounds

					Ovalue
4) Vinyl Chloride	1.39	62	1239	0.393	ug/l 90
8) Diethyl Ether	2.17	74	9215	5.025	ug/l 95
15) Acetone	2.43	58	7772	17.847	ug/l 91
22) cis-1,2-Dichloroethene	4.56	96	1436m	0.433	ug/l
23) tert-Butyl Alcohol	3.04	59	2458816	3817.501	ug/l 100
24) Methyl tert-Butyl Ether	3.17	73	23296	2.642	ug/l # 84
34) Benzene	6.11	78	30145	2.524	ug/l 95
36) 1,2-Dichloroethane	6.17	62	1592	0.385	ug/l 97
45) 1,4-Dioxane	7.72	88	6040	88.815	ug/l 97
58) 4-Methyl-2-Pentanone	8.62	43	24286	6.709	ug/l # 76
62) Toluene	8.76	91	19249	1.519	ug/l 98
64) Chlorobenzene	10.12	112	7294	0.945	ug/l # 86
66) Ethyl Benzene	10.23	91	26243	1.890	ug/l 97
67) m/p-Xylenes	10.34	106	31188	5.996	ug/l 96
68) o-Xylene	10.68	106	23831	4.834	ug/l 99
70) Isopropylbenzene	11.00	105	7382	0.552	ug/l 96
76) 1,3,5-Trimethylbenzene	11.49	105	7197	0.636	ug/l 99
80) 1,2,4-Trimethylbenzene	11.79	105	16750	1.472	ug/l 99
82) p-Isopropyltoluene	12.05	119	6312	0.532	ug/l 96
84) 1,4-Dichlorobenzene	12.08	146	21540	3.462	ug/l 99
87) 1,2-Dichlorobenzene	12.37	146	1789	0.294	ug/l 94
91) Naphthalene	13.82	128	11078	0.858	ug/l 98

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

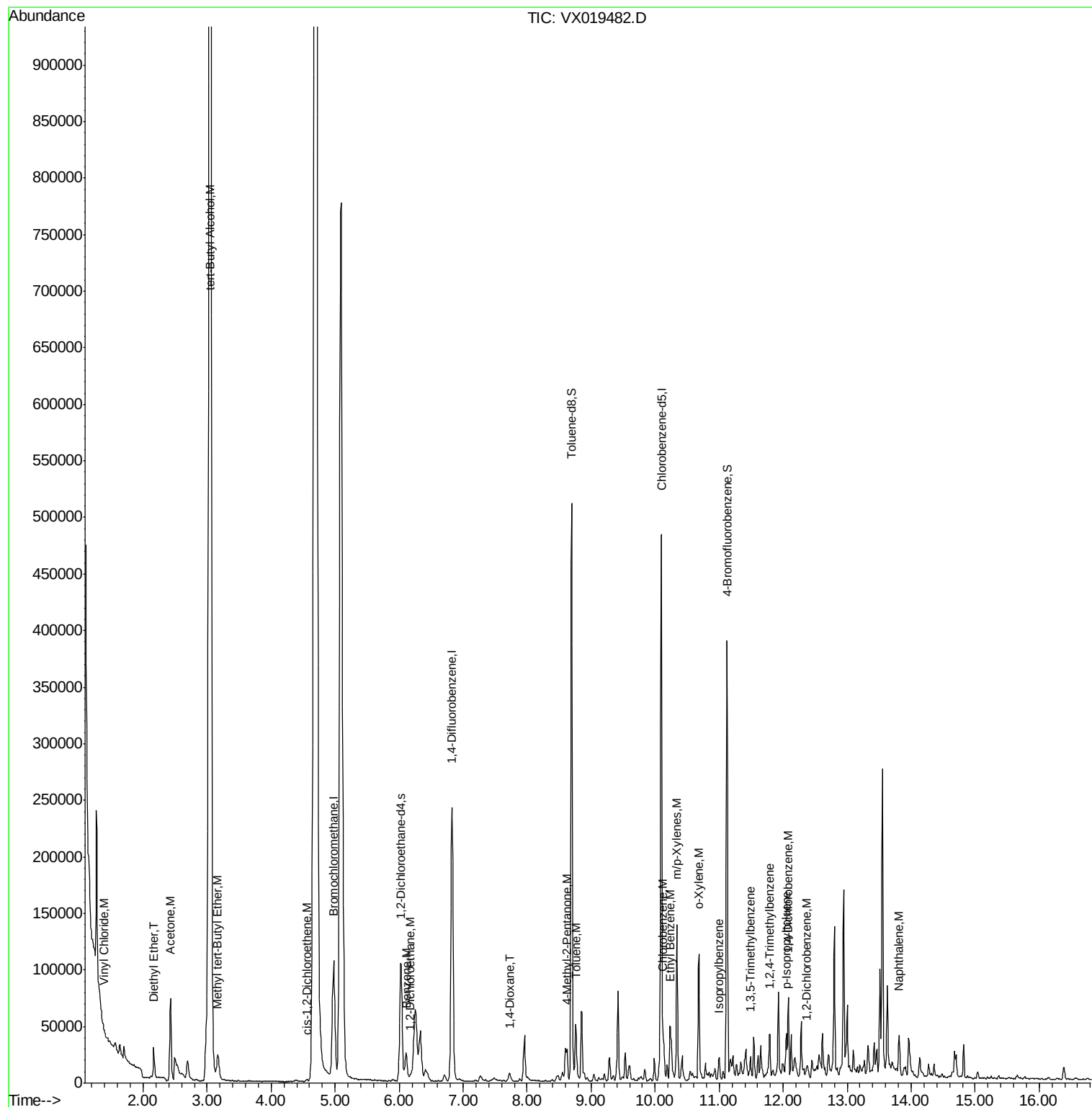
Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX112020\
Data File : VX019482.D
Acq On : 19 Nov 2020 21:37
Operator : JC/MD
Sample : L4827-01
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 16 Sample Multiplier: 1

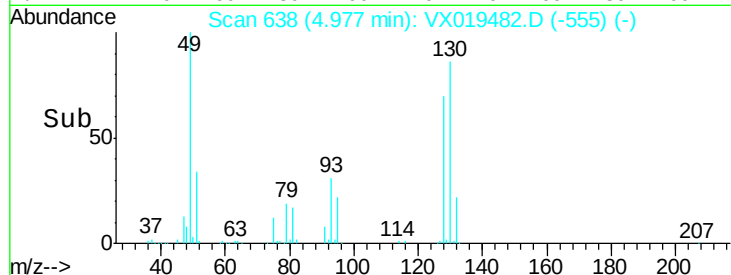
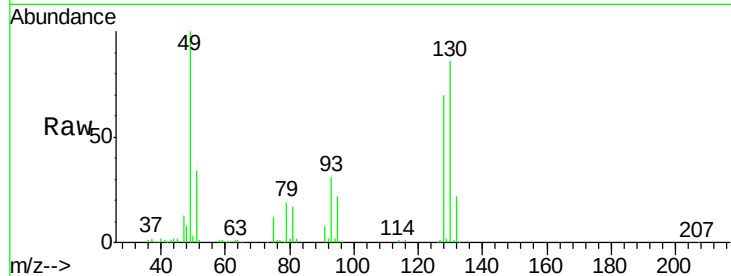
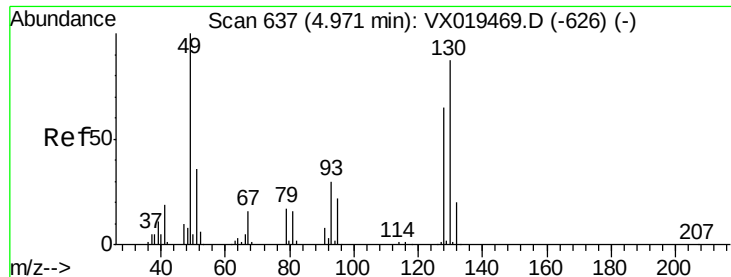
Instrument :
MSVOA_X
ClientSampleId :
201118060-02-VOA

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Quant Time: Nov 20 11:39:01 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X112020W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Nov 20 01:06:02 2020
Response via : Initial Calibration





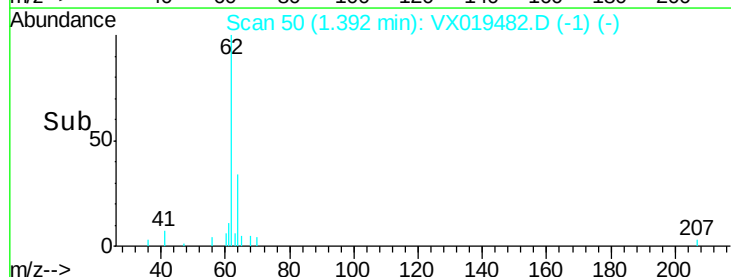
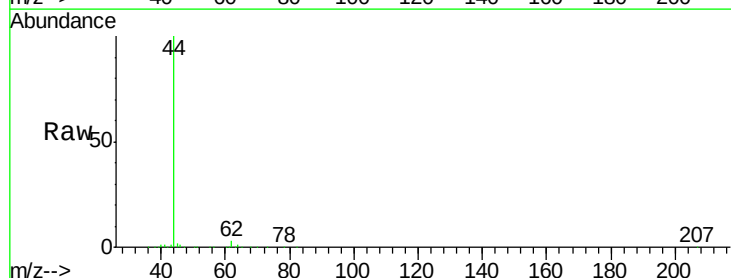
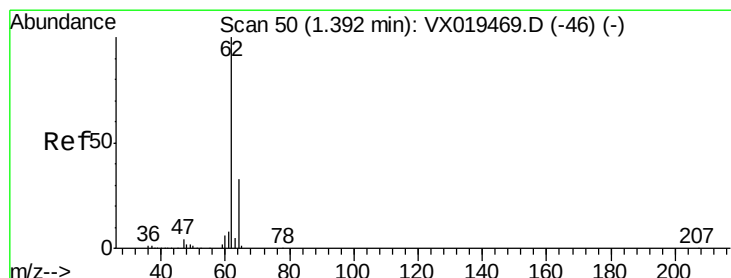
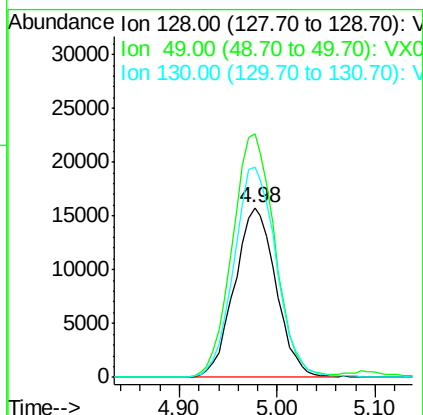
#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 4.98 min Scan# 638
Delta R.T. 0.01 min
Lab File: VX019482.D
Acq: 19 Nov 2020 21:37

Tot Ion	Ratio	Lower	Upper
128	100		
49	147.1	0.0	377.8
130	127.4	0.0	324.0

Instrument :
MSVOA_X
ClientSampleId :
201118060-02-VOA

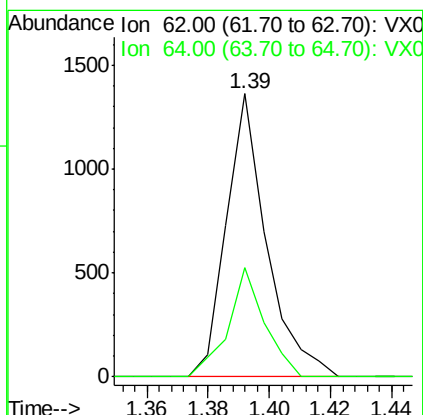
Manual Integrations
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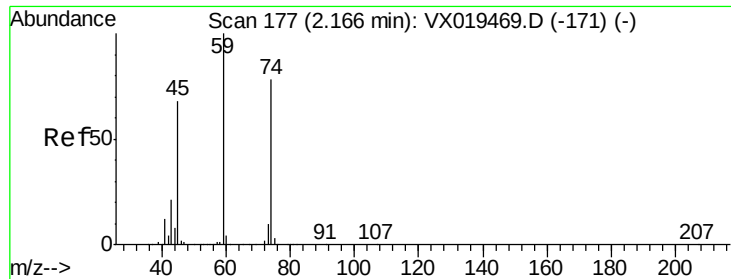
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#4
Vinyl Chloride
Concen: 0.393 ug/l
RT: 1.39 min Scan# 50
Delta R.T. -0.00 min
Lab File: VX019482.D
Acq: 19 Nov 2020 21:37

Tgt Ion	Ratio	Lower	Upper
62	100		
64	38.5	26.4	39.6





#8

Diethyl Ether

Concen: 5.025 ug/l

RT: 2.17 min Scan# 177

Delta R.T. -0.00 min

Lab File: VX019482.D

Acq: 19 Nov 2020 21:37

Instrument :

MSVOA_X

ClientSampleId :

201118060-02-VOA

Tot Ion: 74 Resp: 9215

Ion Ratio Lower Upper

74 100

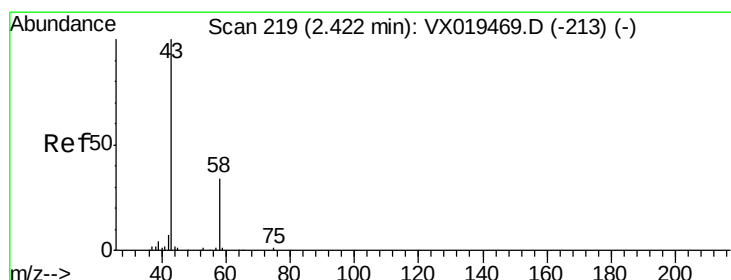
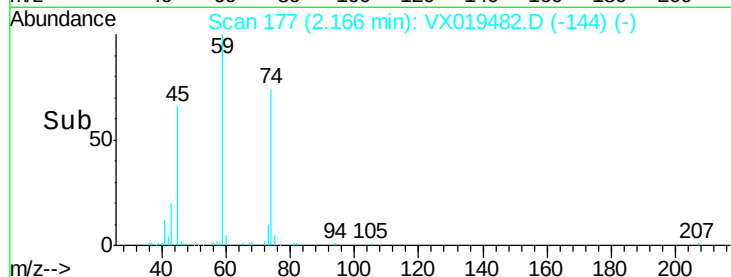
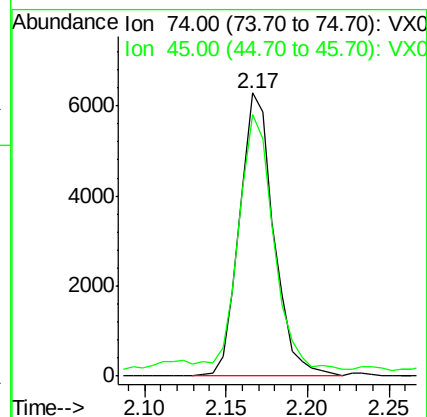
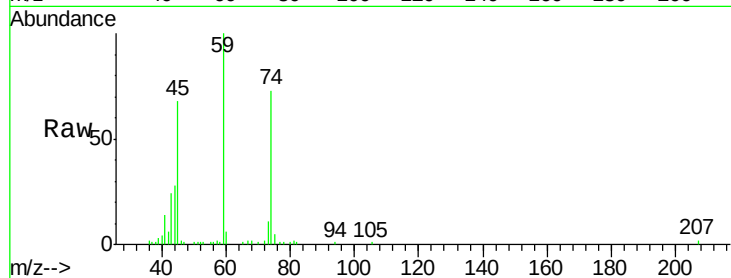
45 90.3 17.2 155.0

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#15

Acetone

Concen: 17.847 ug/l

RT: 2.43 min Scan# 220

Delta R.T. 0.01 min

Lab File: VX019482.D

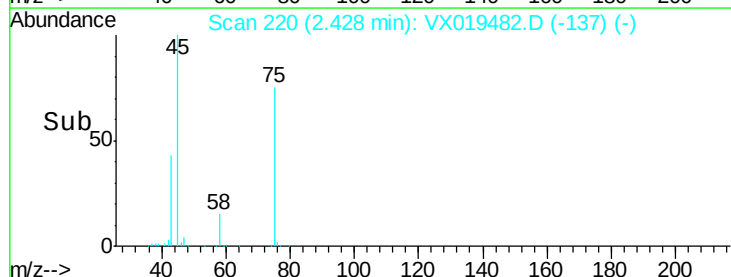
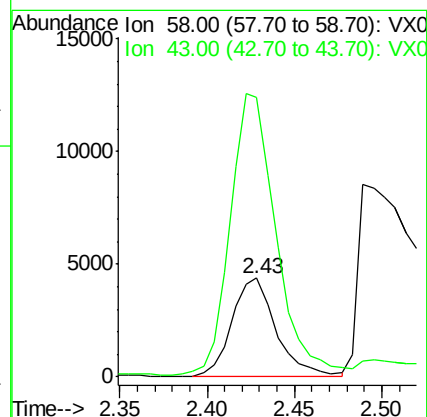
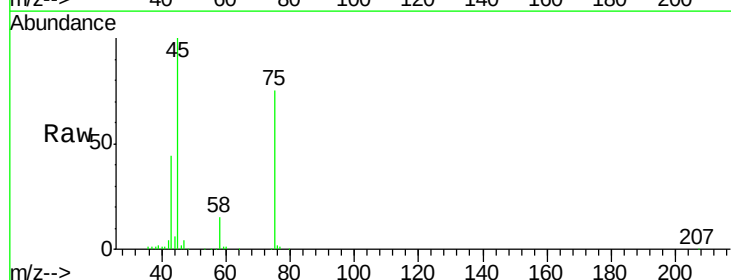
Acq: 19 Nov 2020 21:37

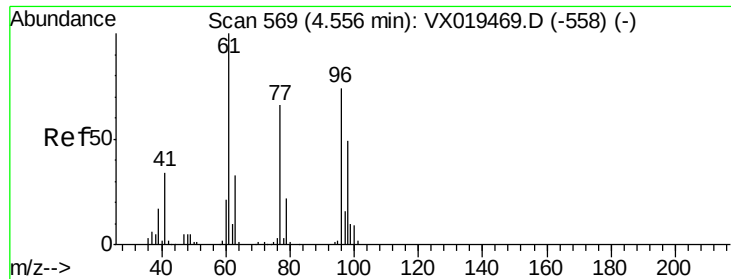
Tgt Ion: 58 Resp: 7772

Ion Ratio Lower Upper

58 100

43 277.3 236.3 354.5





#22

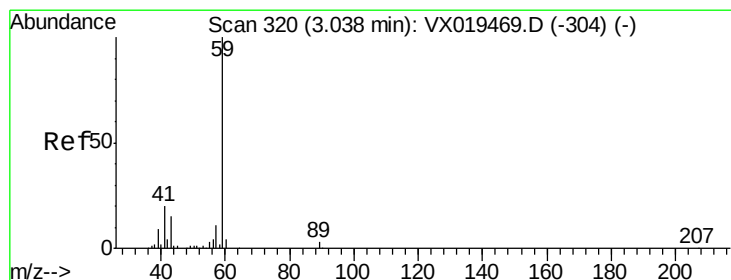
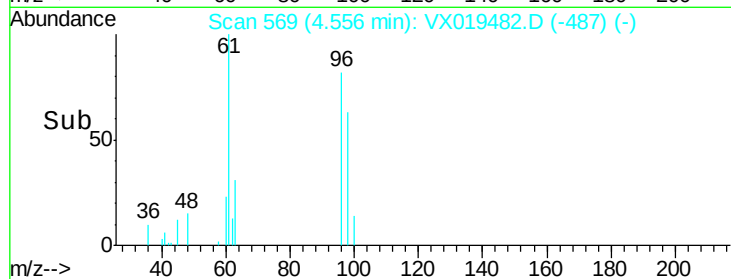
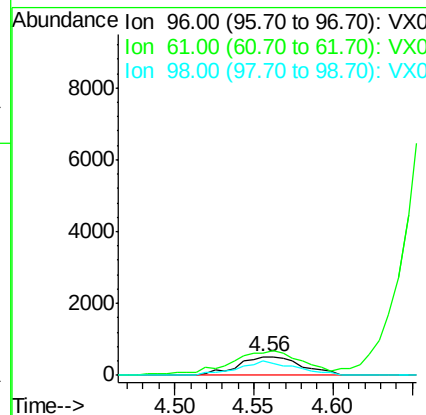
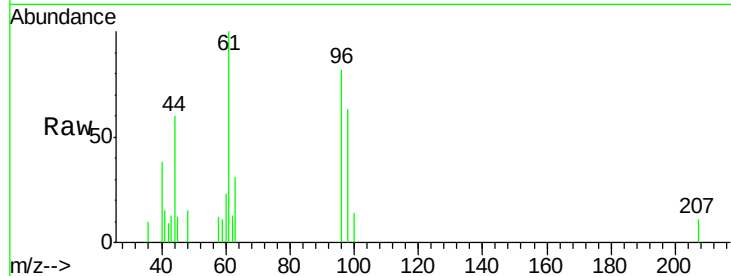
cis-1,2-Dichloroethene
Concen: 0.433 ug/l m
RT: 4.56 min Scan# 569
Delta R.T. -0.00 min
Lab File: VX019482.D
Acq: 19 Nov 2020 21:37

Instrument :
MSVOA_X
ClientSampleId :
201118060-02-VOA

Tot Ion	Ion	Ratio	Lower	Upper
96	100			
61	135.5	114.2	171.2	
98	68.2	51.7	77.5	

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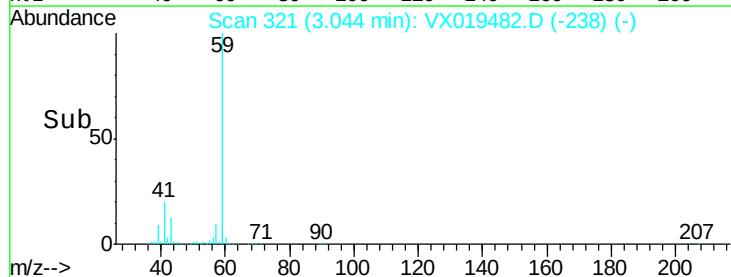
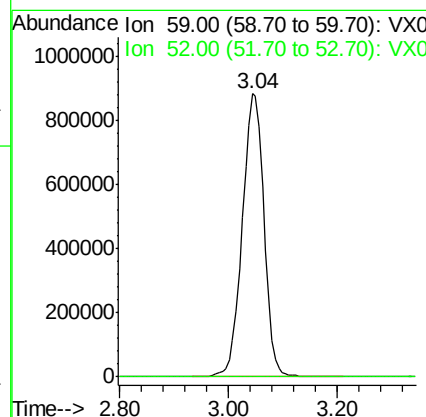
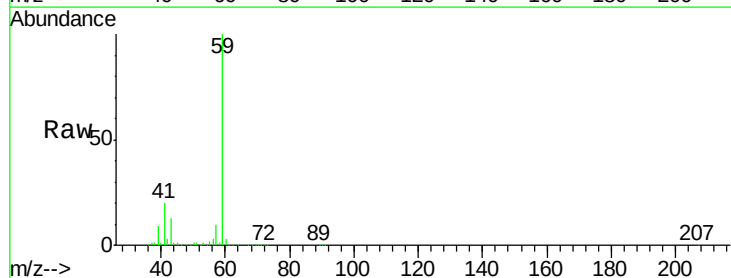
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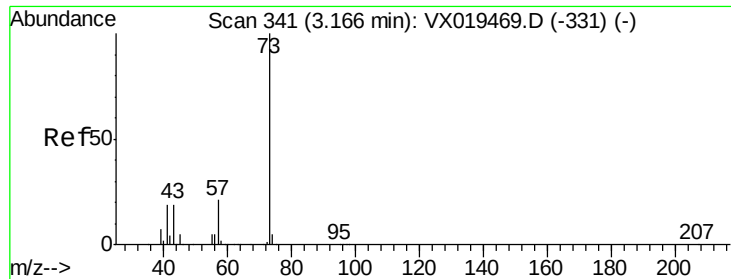


#23

tert-Butyl Alcohol
Concen: 3817.501 ug/l
RT: 3.04 min Scan# 321
Delta R.T. 0.01 min
Lab File: VX019482.D
Acq: 19 Nov 2020 21:37

Tgt Ion	Ion	Ratio	Lower	Upper
59	100			
52	0.2	0.2	0.2	





#24

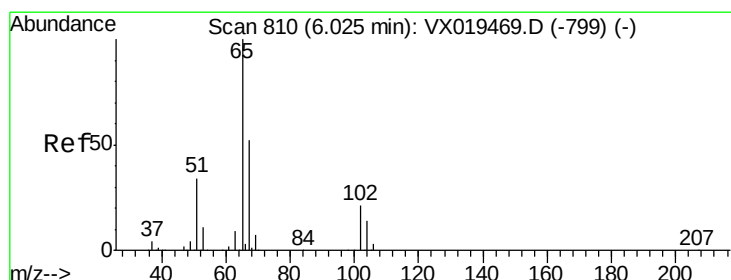
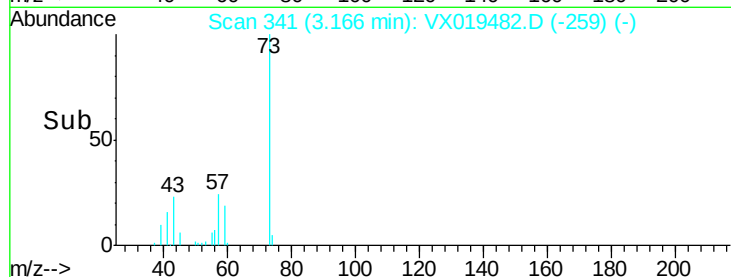
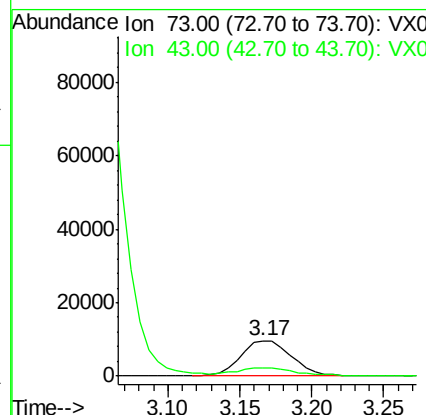
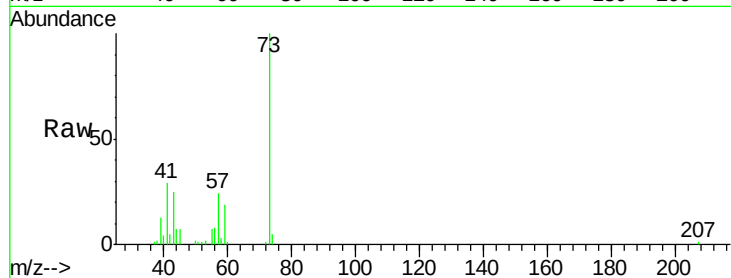
Methyl tert-Butyl Ether
 Concen: 2.642 ug/l
 RT: 3.17 min Scan# 341
 Delta R.T. -0.00 min
 Lab File: VX019482.D
 Acq: 19 Nov 2020 21:37

Instrument :
 MSVOA_X
 ClientSampleId :
 201118060-02-VOA

Tot Ion: 73 Resp: 23296
 Ion Ratio Lower Upper
 73 100
 43 26.0 15.0 22.6#

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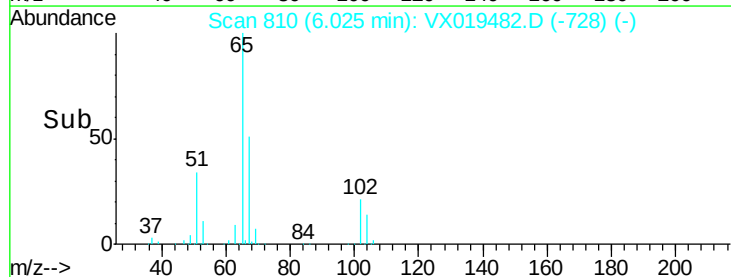
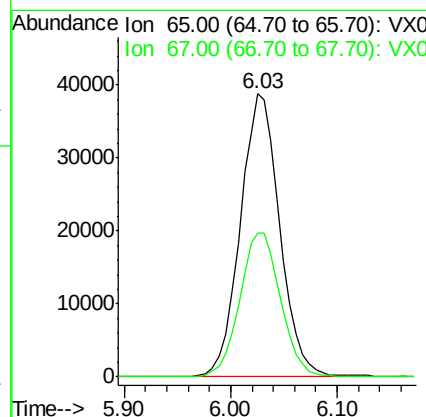
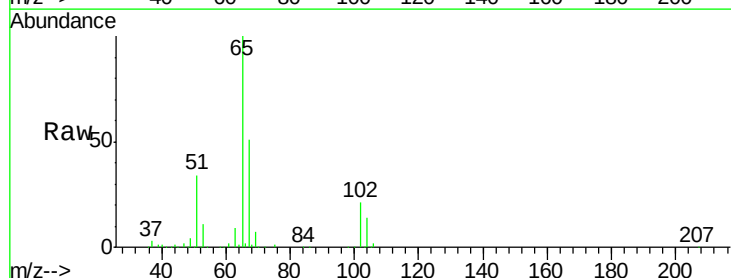
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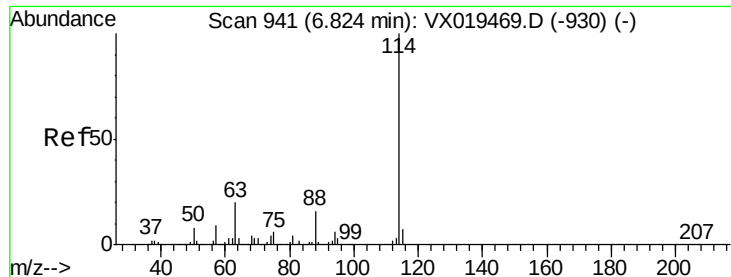


#27

1,2-Dichloroethane-d4
 Concen: 30.173 ug/l
 RT: 6.03 min Scan# 810
 Delta R.T. -0.00 min
 Lab File: VX019482.D
 Acq: 19 Nov 2020 21:37

Tgt Ion: 65 Resp: 100445
 Ion Ratio Lower Upper
 65 100
 67 52.8 42.2 63.2





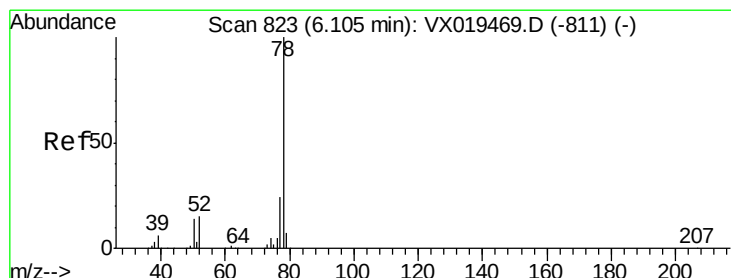
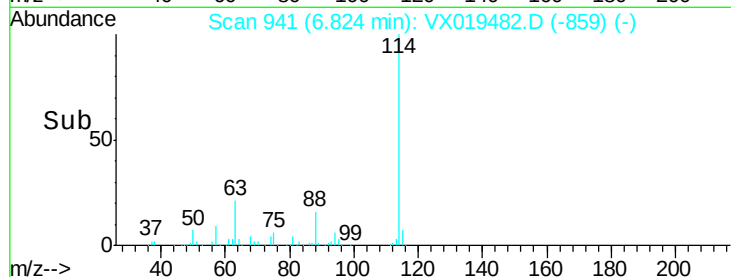
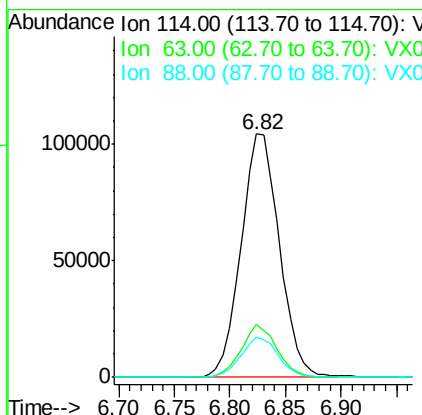
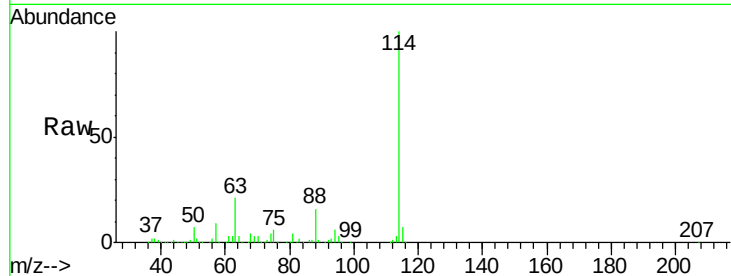
#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 6.82 min Scan# 941
 Delta R.T. -0.00 min
 Lab File: VX019482.D
 Acq: 19 Nov 2020 21:37

Instrument :
 MSVOA_X
 ClientSampleId :
 201118060-02-VOA

Tot Ion	Ratio	Resp	Lower	Upper
114	100	250223		
63	20.2		16.2	24.2
88	16.1		12.9	19.3

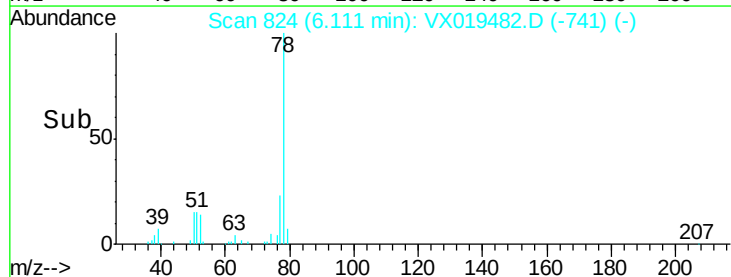
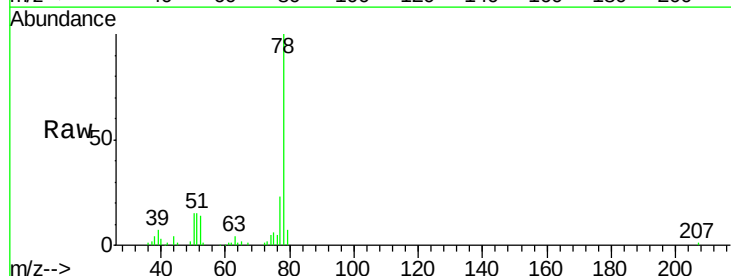
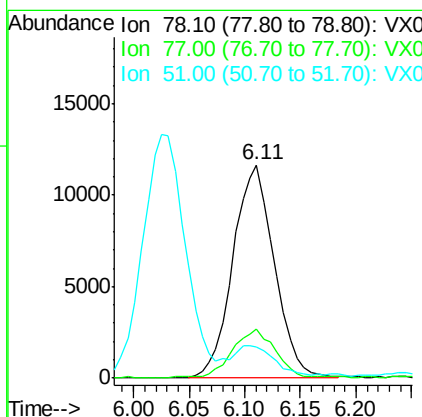
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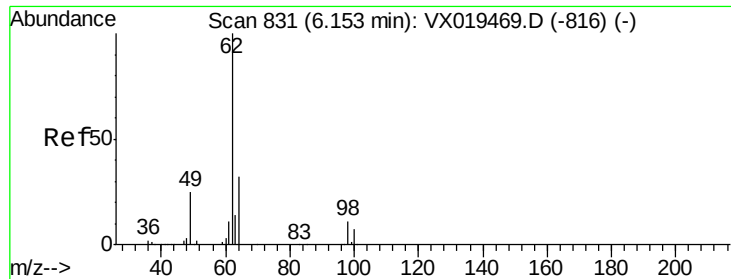
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#34
 Benzene
 Concen: 2.524 ug/l
 RT: 6.11 min Scan# 824
 Delta R.T. 0.01 min
 Lab File: VX019482.D
 Acq: 19 Nov 2020 21:37

Tgt Ion	Ratio	Resp	Lower	Upper
78	100	30145		
77	22.4		19.0	28.6
51	12.7		12.7	19.1





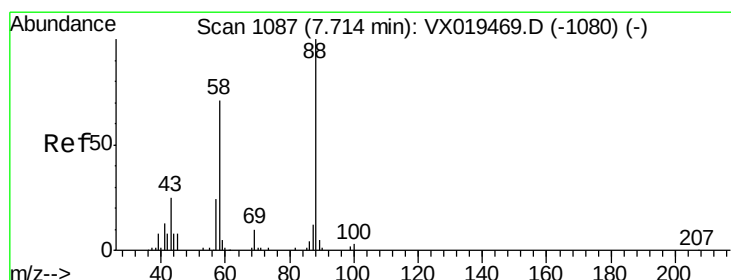
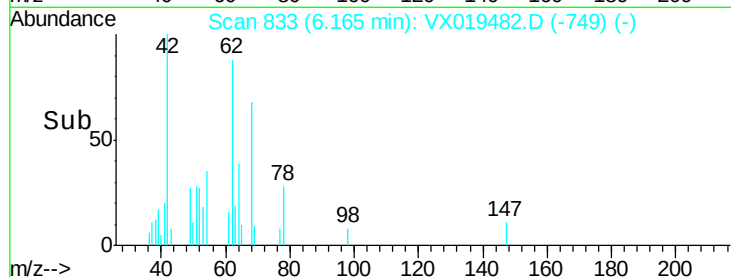
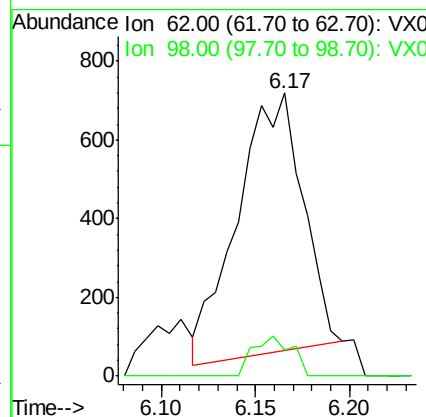
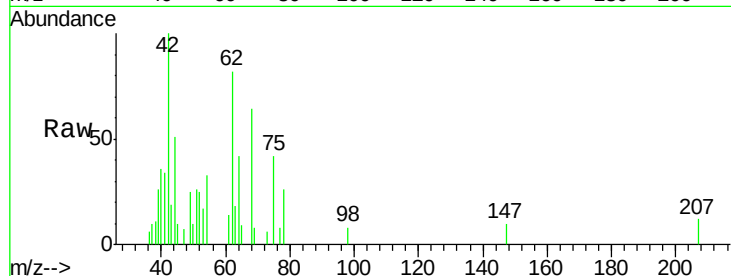
#36
 1,2-Dichloroethane
 Concen: 0.385 ug/l
 RT: 6.17 min Scan# 833
 Delta R.T. 0.01 min
 Lab File: VX019482.D
 Acq: 19 Nov 2020 21:37

Instrument :
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 ClientSampleId :
 201118060-02-VOA

Tot Ion	Ratio	Resp	Lower	Upper
62	100	1592		
98	9.0		8.1	12.1

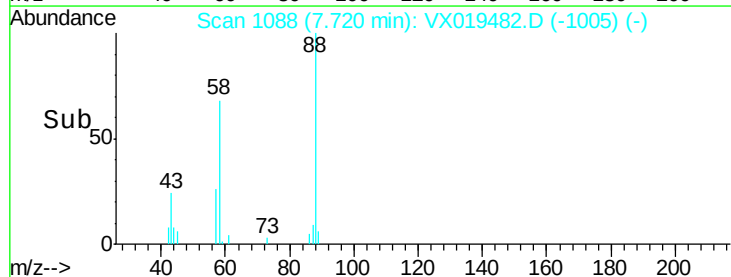
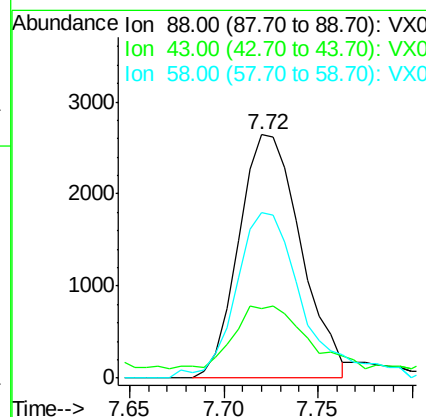
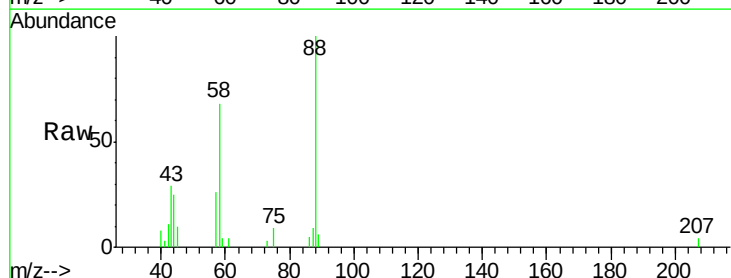
Manual Integrations
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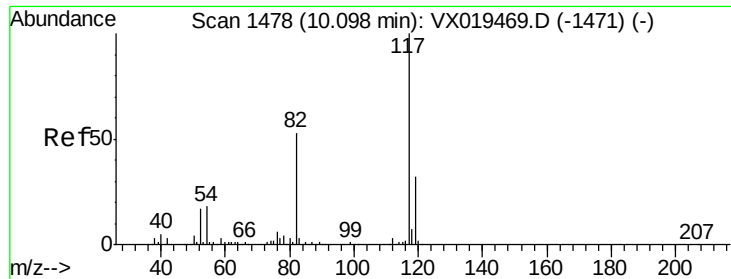
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#45
 1,4-Dioxane
 Concen: 88.815 ug/l
 RT: 7.72 min Scan# 1088
 Delta R.T. 0.01 min
 Lab File: VX019482.D
 Acq: 19 Nov 2020 21:37

Tgt Ion	Ratio	Resp	Lower	Upper
88	100	6040		
43	25.4		24.2	36.4
58	70.1		56.6	84.8





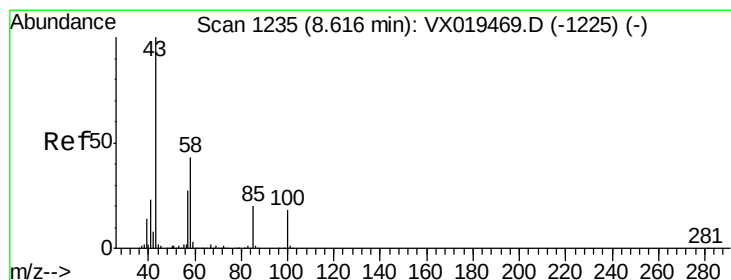
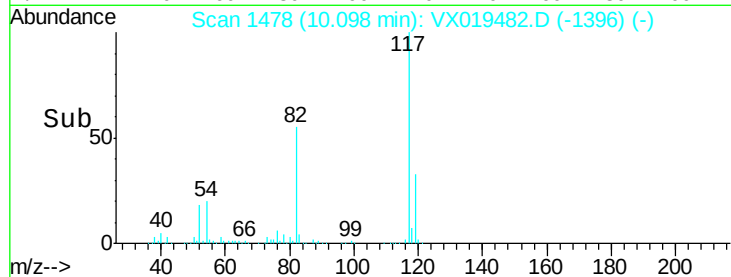
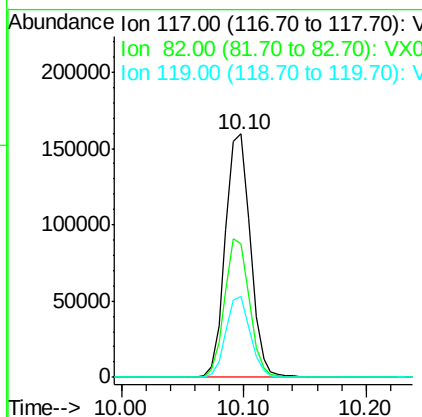
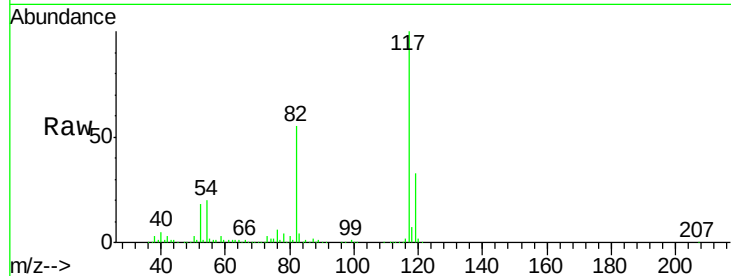
#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX019482.D
Acq: 19 Nov 2020 21:37

Instrument :
MSVOA_X
ClientSampleId :
201118060-02-VOA

Tot Ion	Ratio	Resp	Lower	Upper
117	100	226597		
82	56.0		44.5	66.7
119	32.3		25.9	38.9

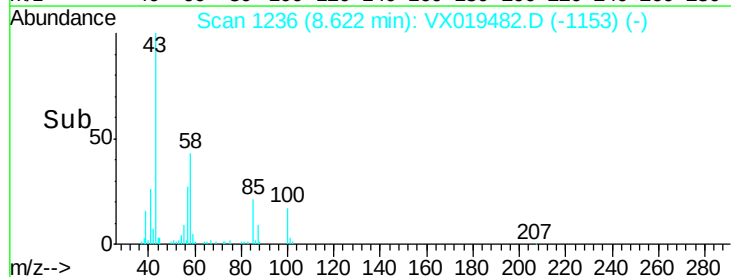
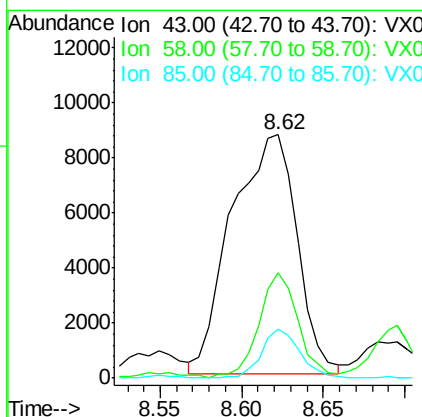
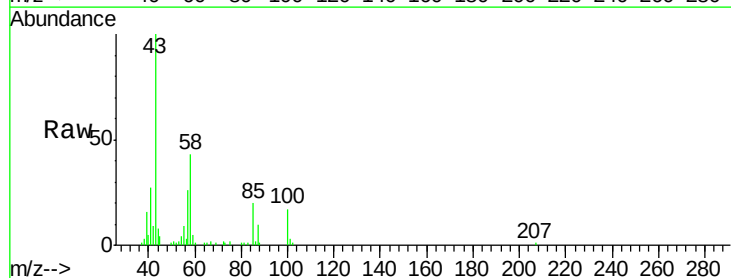
Manual Integrations
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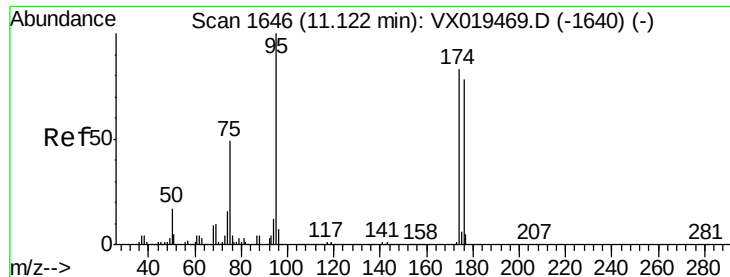
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#58
4-Methyl-2-Pentanone
Concen: 6.709 ug/l
RT: 8.62 min Scan# 1236
Delta R.T. 0.01 min
Lab File: VX019482.D
Acq: 19 Nov 2020 21:37

Tgt Ion	Ratio	Resp	Lower	Upper
43	100	24286		
58	26.5		35.1	52.7#
85	12.0		16.7	25.1#





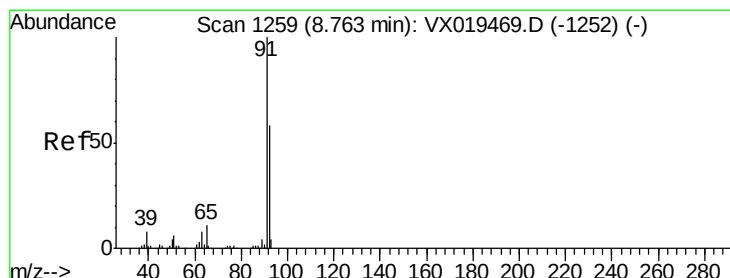
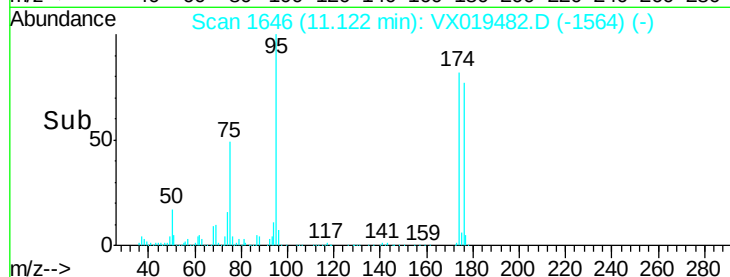
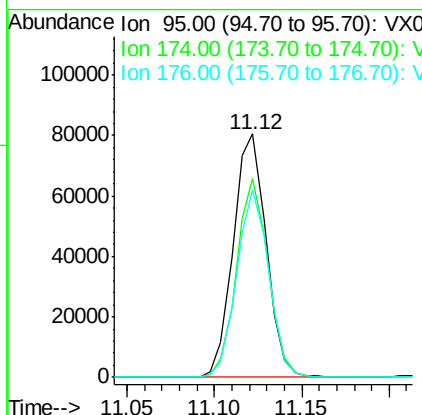
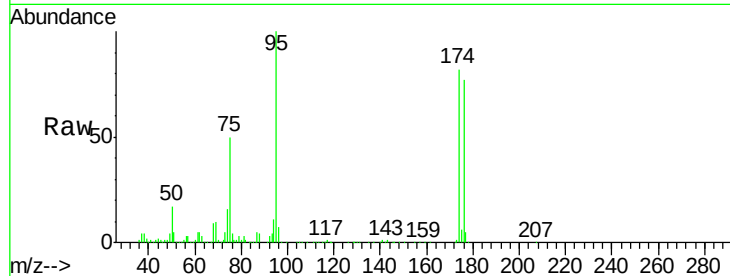
#60
4-Bromofluorobenzene
Concen: 28.559 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. -0.00 min
Lab File: VX019482.D
Acq: 19 Nov 2020 21:37

Instrument :
MSVOA_X
ClientSampleId :
201118060-02-VOA

Tot Ion	Ratio	Lower	Upper
95	100		
174	78.7	63.5	95.3
176	75.1	59.8	89.6

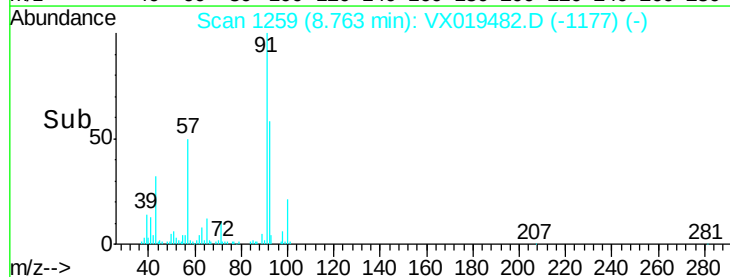
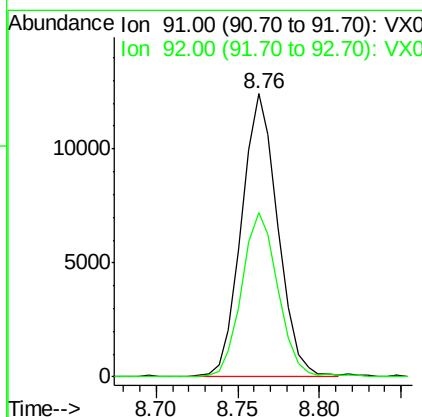
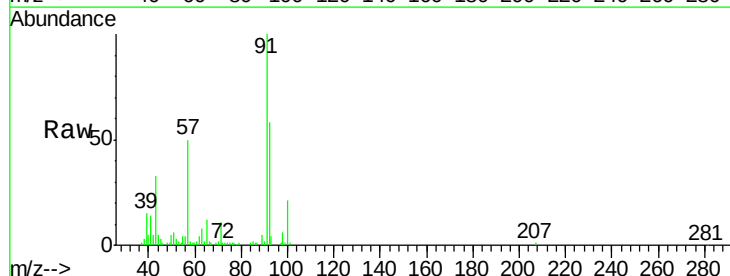
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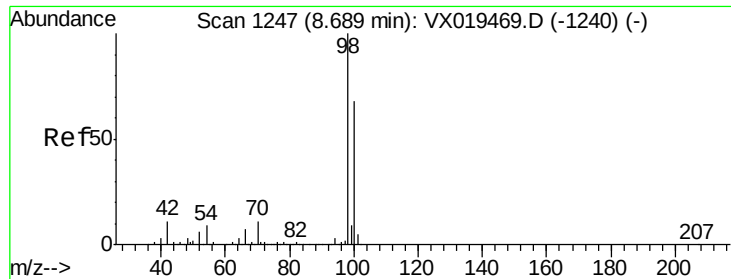
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#62
Toluene
Concen: 1.519 ug/l
RT: 8.76 min Scan# 1259
Delta R.T. -0.00 min
Lab File: VX019482.D
Acq: 19 Nov 2020 21:37

Tgt Ion	Ratio	Lower	Upper
91	100		
92	57.8	47.4	71.2





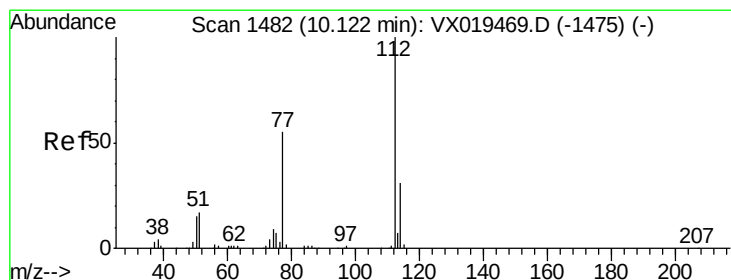
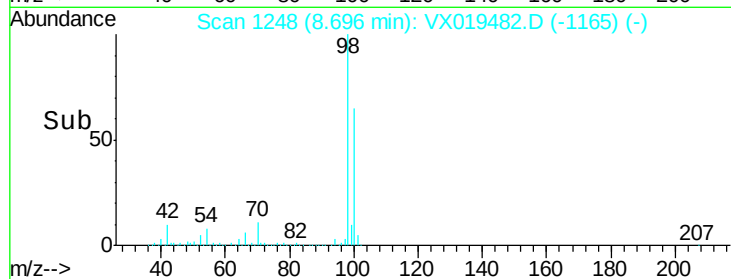
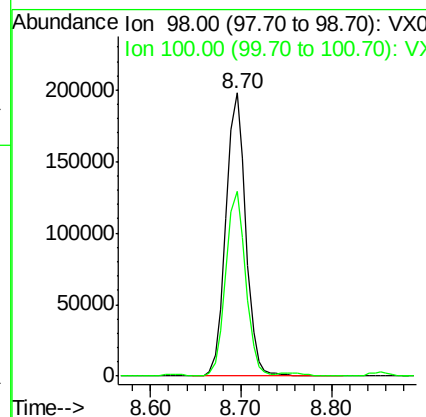
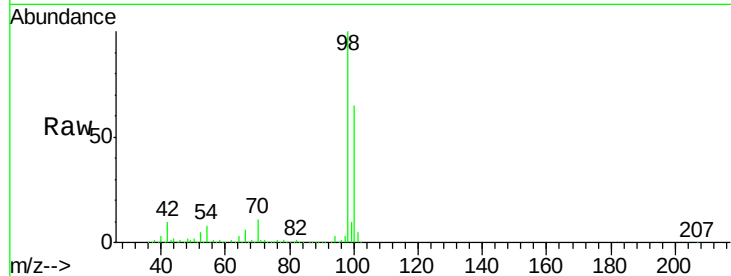
#63
Toluene-d8
Concen: 30.095 ug/l
RT: 8.70 min Scan# 1248
Delta R.T. 0.01 min
Lab File: VX019482.D
Acq: 19 Nov 2020 21:37

Instrument :
MSVOA_X
ClientSampleId :
201118060-02-VOA

Tot Ion: 98 Resp: 303966
Ion Ratio Lower Upper
98 100
100 65.4 53.6 80.4

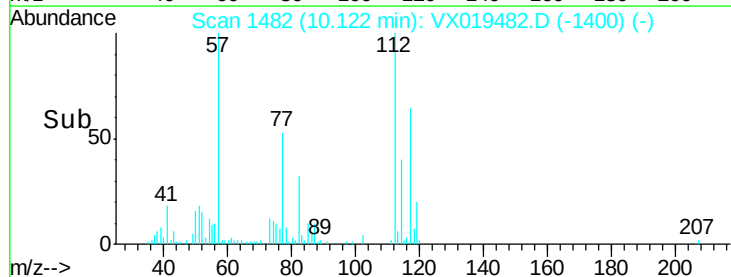
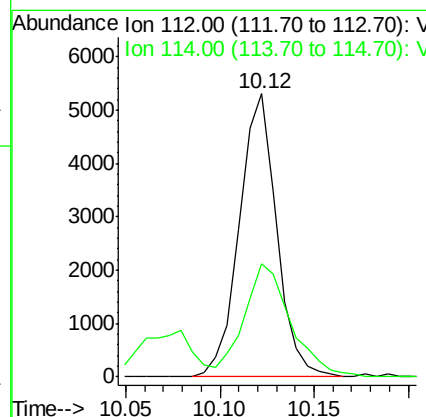
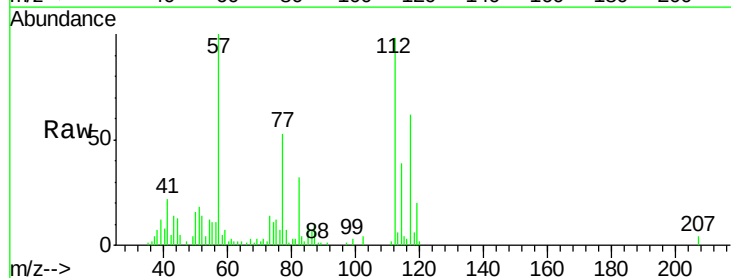
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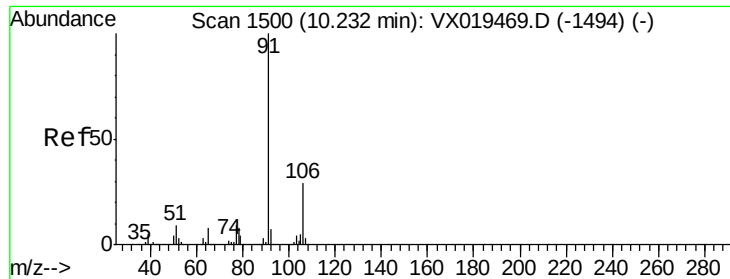
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#64
Chlorobenzene
Concen: 0.945 ug/l
RT: 10.12 min Scan# 1482
Delta R.T. -0.00 min
Lab File: VX019482.D
Acq: 19 Nov 2020 21:37

Tgt Ion: 112 Resp: 7294
Ion Ratio Lower Upper
112 100
114 38.7 24.8 37.2#





#66

Ethyl Benzene

Concen: 1.890 ug/l

RT: 10.23 min Scan# 1500

Delta R.T. -0.00 min

Lab File: VX019482.D

Acq: 19 Nov 2020 21:37

Instrument :

MSVOA_X

ClientSampleId :

201118060-02-VOA

Tot Ion: 91 Resp: 26243

Ion Ratio Lower Upper

91 100

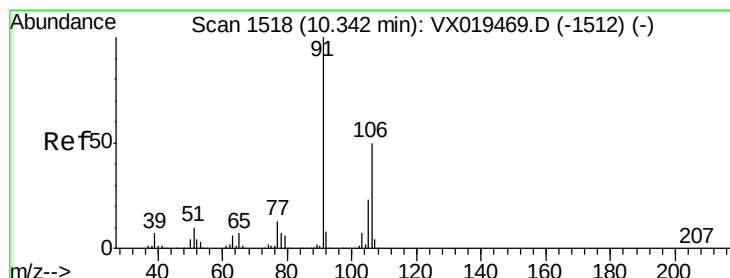
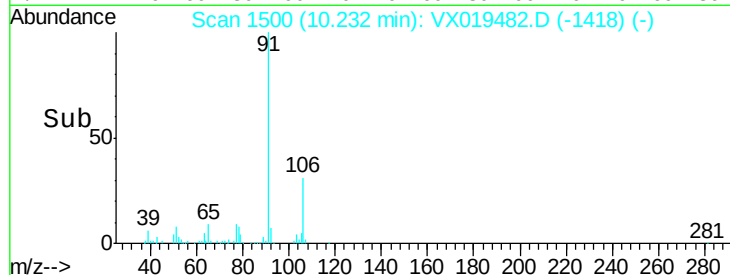
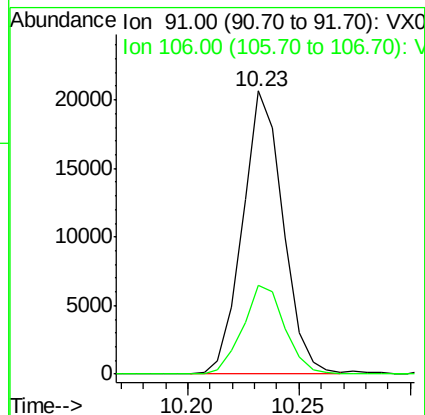
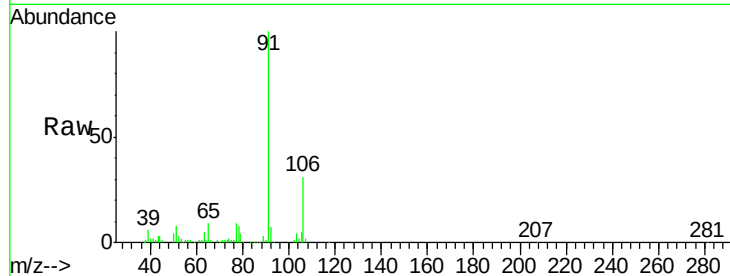
106 31.3 23.5 35.3

Manual Integrations

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#67

m/p-Xylenes

Concen: 5.996 ug/l

RT: 10.34 min Scan# 1518

Delta R.T. -0.00 min

Lab File: VX019482.D

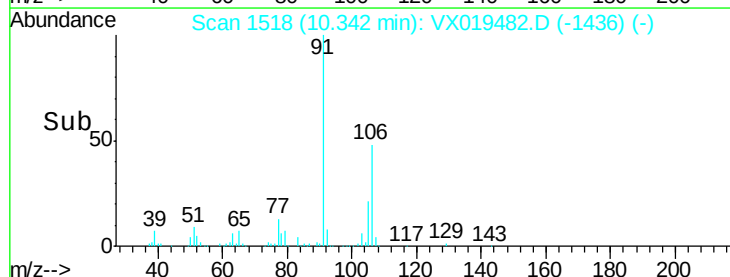
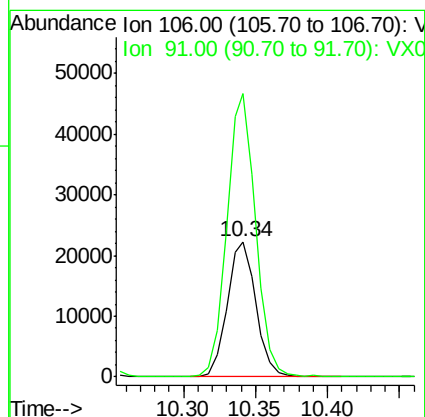
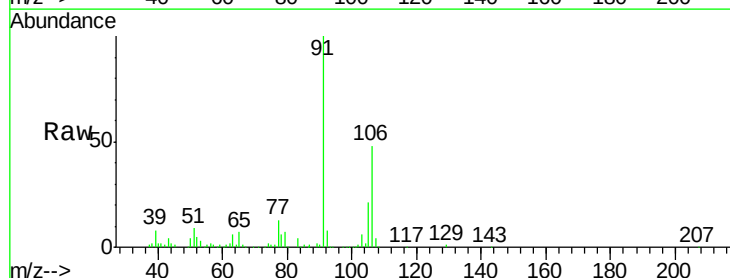
Acq: 19 Nov 2020 21:37

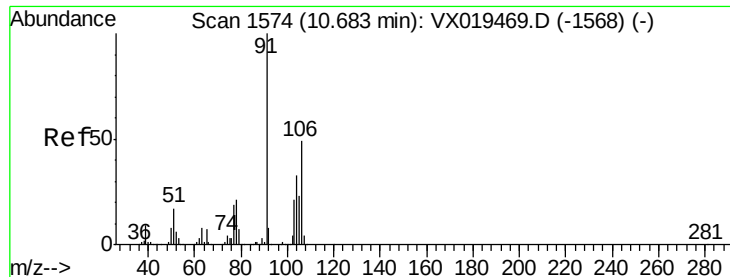
Tgt Ion: 106 Resp: 31188

Ion Ratio Lower Upper

106 100

91 209.1 162.7 244.1





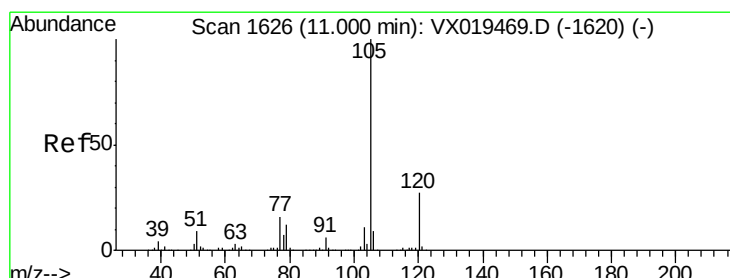
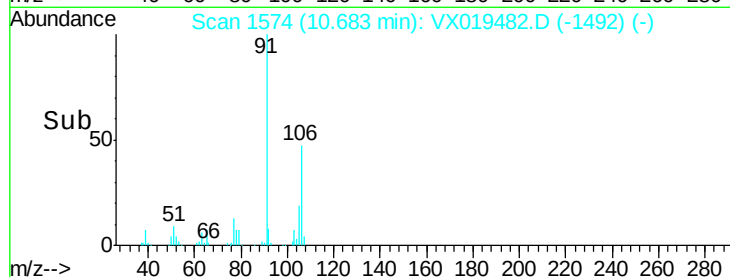
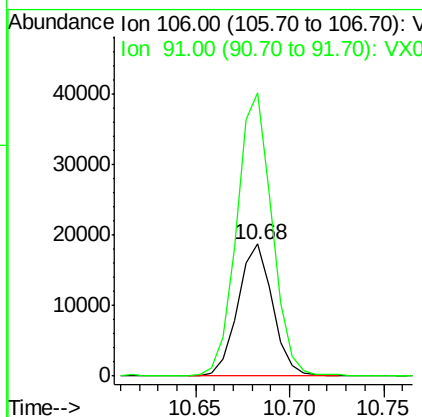
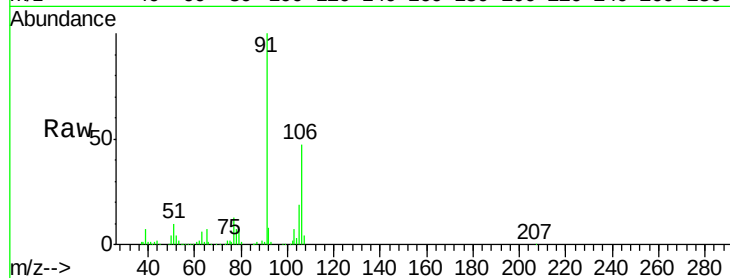
#68
o-Xylene
Concen: 4.834 ug/l
RT: 10.68 min Scan# 1574
Delta R.T. -0.00 min
Lab File: VX019482.D
Acq: 19 Nov 2020 21:37

Instrument :
MSVOA_X
ClientSampleId :
201118060-02-VOA

Tot Ion:106 Resp: 23831
Ion Ratio Lower Upper
106 100
91 218.2 108.3 324.9

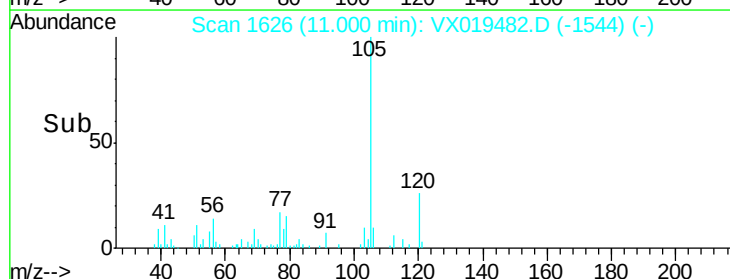
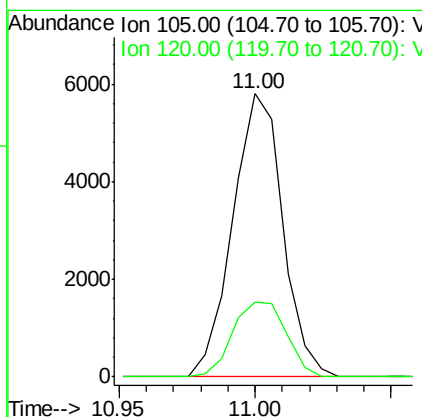
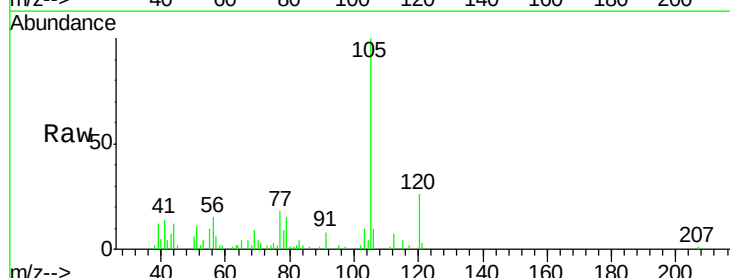
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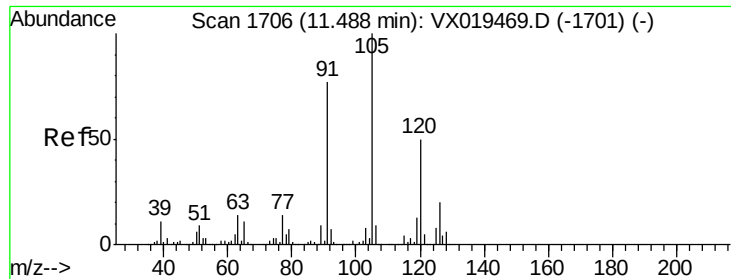
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#70
Isopropylbenzene
Concen: 0.552 ug/l
RT: 11.00 min Scan# 1626
Delta R.T. -0.00 min
Lab File: VX019482.D
Acq: 19 Nov 2020 21:37

Tgt Ion:105 Resp: 7382
Ion Ratio Lower Upper
105 100
120 28.3 18.5 34.3





#76

1,3,5-Trimethylbenzene

Concen: 0.636 ug/l

RT: 11.49 min Scan# 1706

Delta R.T. -0.00 min

Lab File: VX019482.D

Acq: 19 Nov 2020 21:37

Instrument :

MSVOA_X

ClientSampleId :

201118060-02-VOA

Tot Ion:105 Resp: 7197

Ion Ratio Lower Upper

105 100

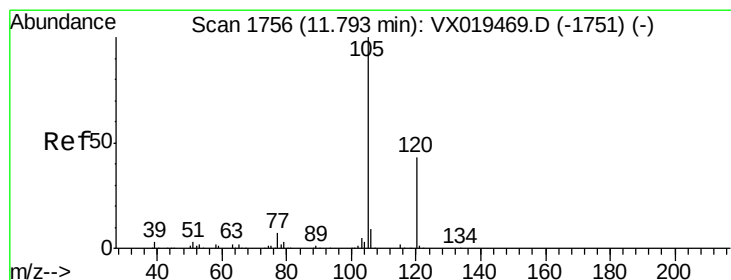
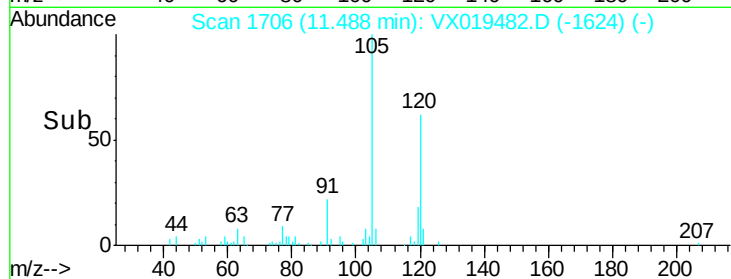
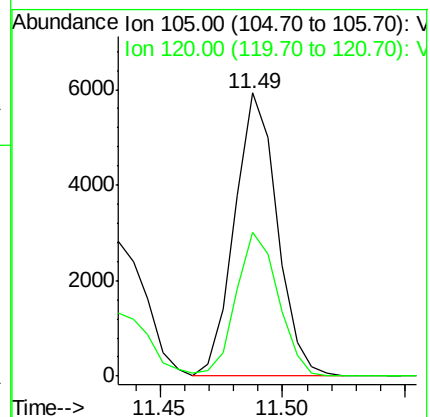
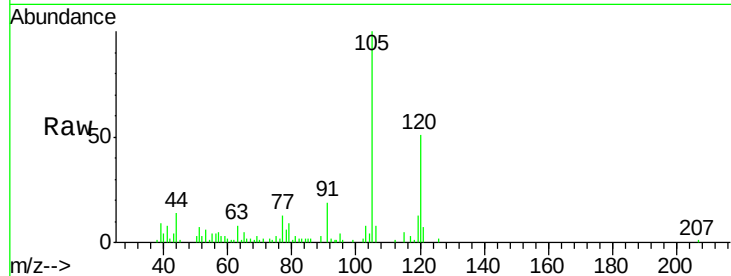
120 50.2 0.0 99.4

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#80

1,2,4-Trimethylbenzene

Concen: 1.472 ug/l

RT: 11.79 min Scan# 1756

Delta R.T. -0.00 min

Lab File: VX019482.D

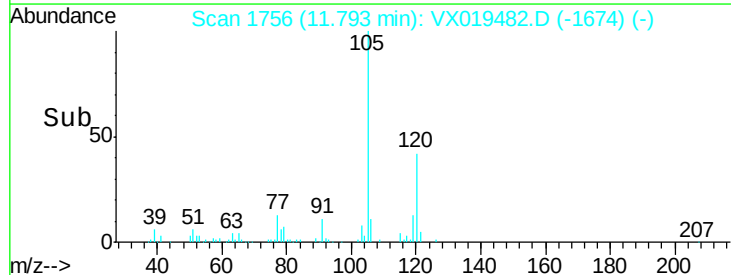
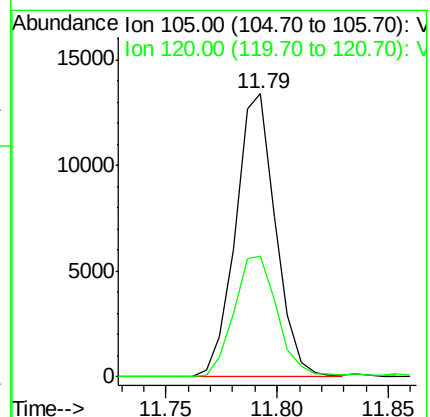
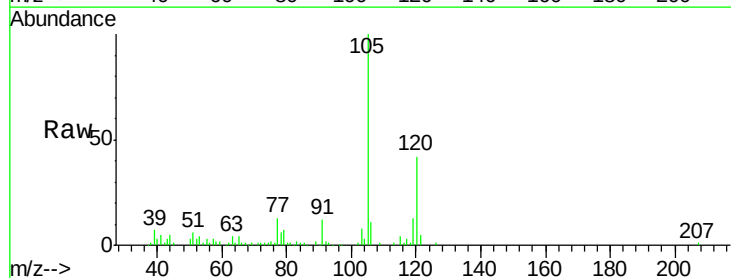
Acq: 19 Nov 2020 21:37

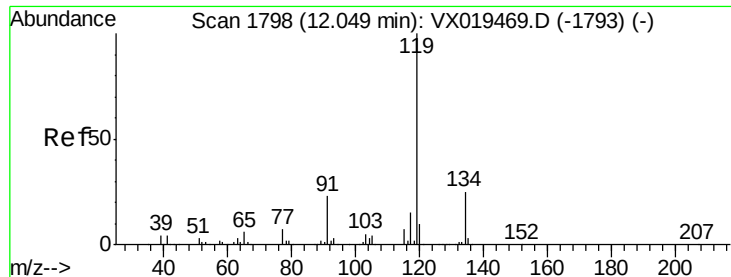
Tgt Ion:105 Resp: 16750

Ion Ratio Lower Upper

105 100

120 46.1 0.0 91.2





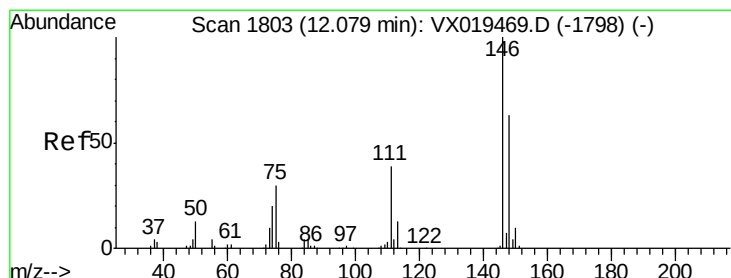
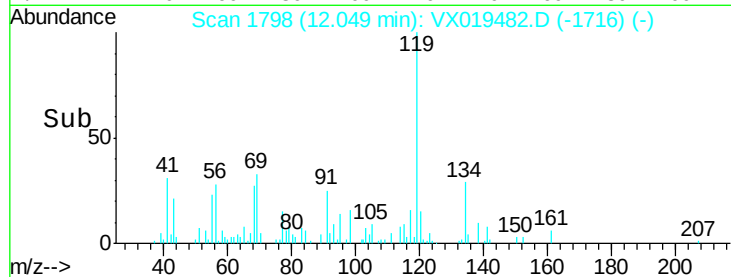
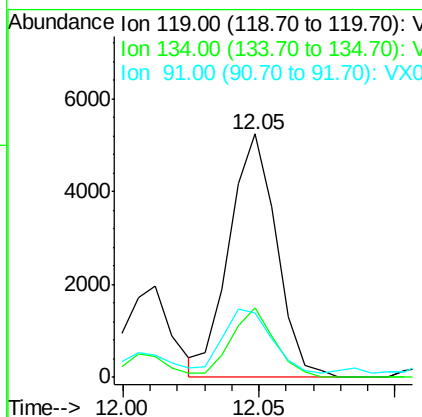
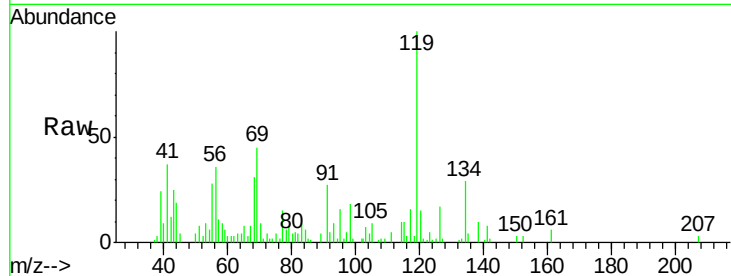
#82
p-Isopropyltoluene
Concen: 0.532 ug/l
RT: 12.05 min Scan# 1798
Delta R.T. -0.00 min
Lab File: VX019482.D
Acq: 19 Nov 2020 21:37

Instrument :
MSVOA_X
ClientSampleId :
201118060-02-VOA

Tot Ion	Ratio	Resp	Lower	Upper
119	100	6312		
134	25.8	0.0	51.8	
91	28.0	0.0	47.6	

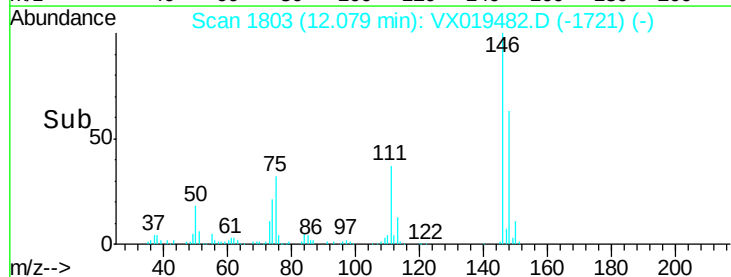
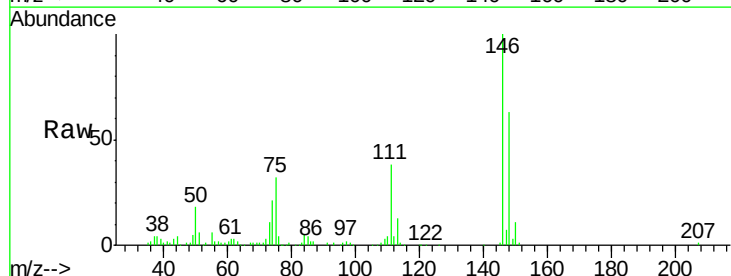
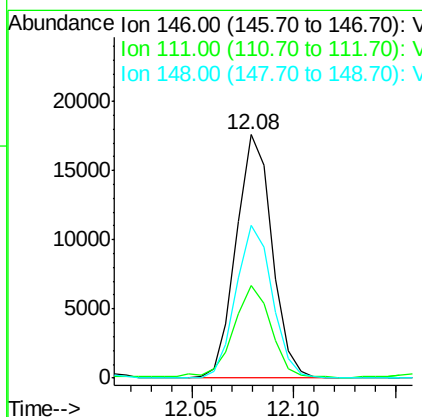
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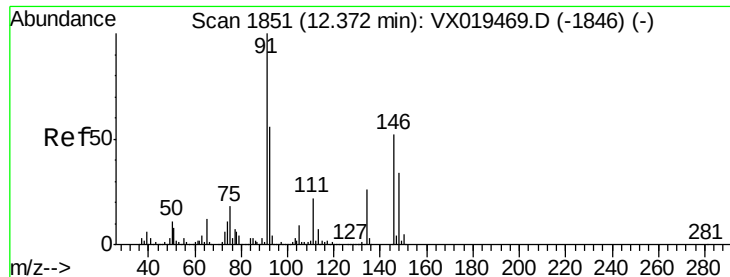
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#84
1,4-Dichlorobenzene
Concen: 3.462 ug/l
RT: 12.08 min Scan# 1803
Delta R.T. -0.00 min
Lab File: VX019482.D
Acq: 19 Nov 2020 21:37

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	21540		
111	38.9	19.3	57.9	
148	63.3	31.4	94.2	





#87

1,2-Dichlorobenzene

Concen: 0.294 ug/l

RT: 12.37 min Scan# 1851

Delta R.T. -0.00 min

Lab File: VX019482.D

Acq: 19 Nov 2020 21:37

Instrument :

MSVOA_X

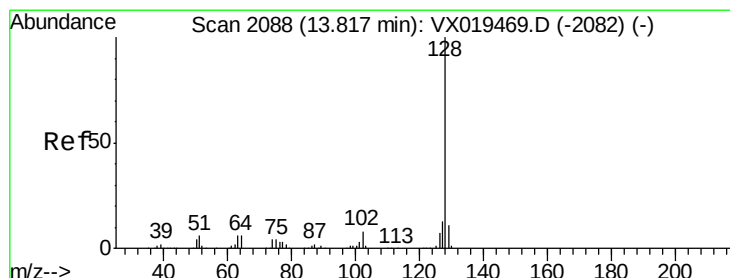
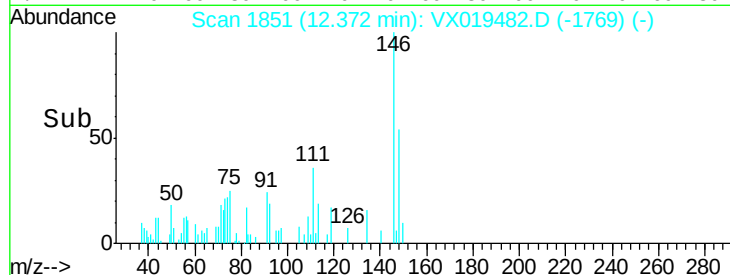
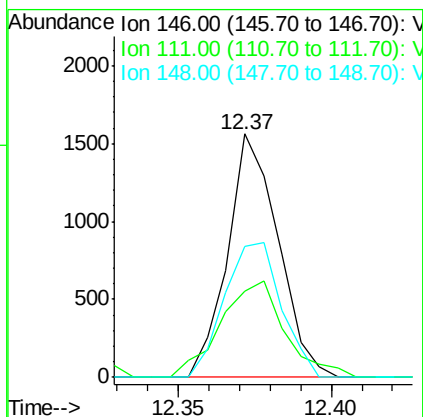
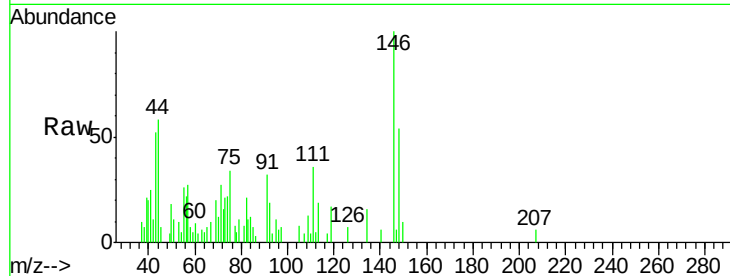
ClientSampleId :

201118060-02-VOA

Tot Ion:	146	Resp:	1789
Ion	Ratio	Lower	Upper
146	100		
111	50.4	20.5	61.6
148	62.3	31.5	94.5

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#91

Naphthalene

Concen: 0.858 ug/l

RT: 13.82 min Scan# 2088

Delta R.T. -0.00 min

Lab File: VX019482.D

Acq: 19 Nov 2020 21:37

Tgt Ion:	128	Resp:	11078
Ion	Ratio	Lower	Upper
128	100		
127	13.4	10.1	15.1
129	11.2	8.6	12.8

